

EvoluChem Reagent Screen & prices

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 **HepatoChem**



AIS-ITM-20230905-E





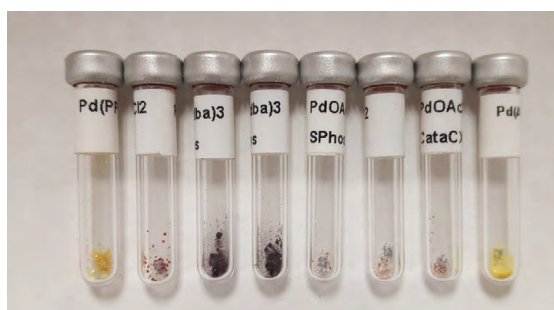
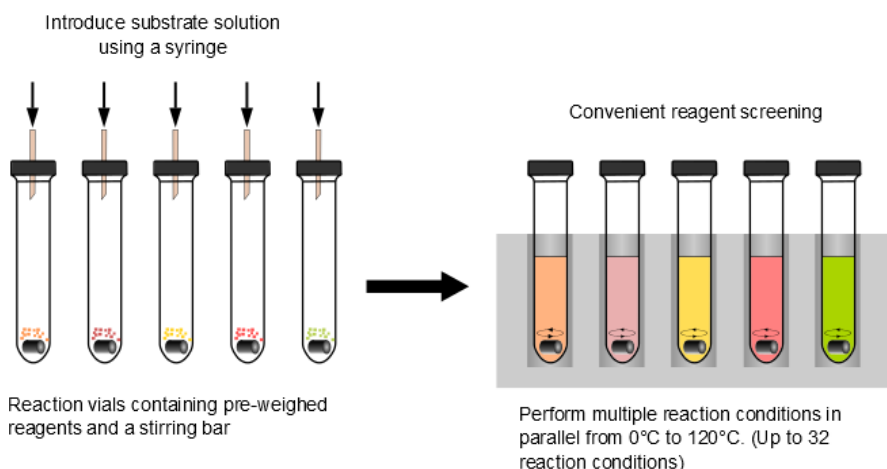
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Description:

The EvoluChem™ kits are chemistry screening kits. They are the ideal tools for the investigation of chemical reaction conditions. These kits enable you to conveniently screen multiple reaction conditions simultaneously using pre-weighed catalysts and reagents. Most of our kits contain all reagents required to perform the reaction conditions .

EvoluChem™ Reagent Screen System





EvoluChem™ Reagent Screen System

4

CURRENT PRACTICE

1.3
DAYS

LITERATURE
SURVEY



0.5
DAY

EXPERIMENTAL
DESIGN



0.2
DAY

REAGENT
ORDERING



0.5
DAY

EXPERIMENT
SETUP



0.5
DAY

ANALYSIS



3 DAYS



\$600 - \$5,000
in savings

EvoluChem™
Chemistry screening kits

Quadruple
your Speed

During the
Optimization Process

0.1
DAY

KIT ORDERING



0.1
DAY

EXPERIMENT
SETUP



0.5
DAY

ANALYSIS



LESS THAN 24 HOURS

Benefits

- Facilitate screen of reaction conditions
- Perform up to 96 reaction conditions simultaneously
- Save your substrate using low scale reaction conditions
- Save time on optimization

Features

- 0.3 ml crimped vial with stirring bar
- Specifically designed reaction block
- Pre-weighed reagents and catalysts
- Temperature from 0°C to 120°C
- Pre-designed or custom arrays available
- Reagents are packaged under inert atmosphere
- Solvents are sparged

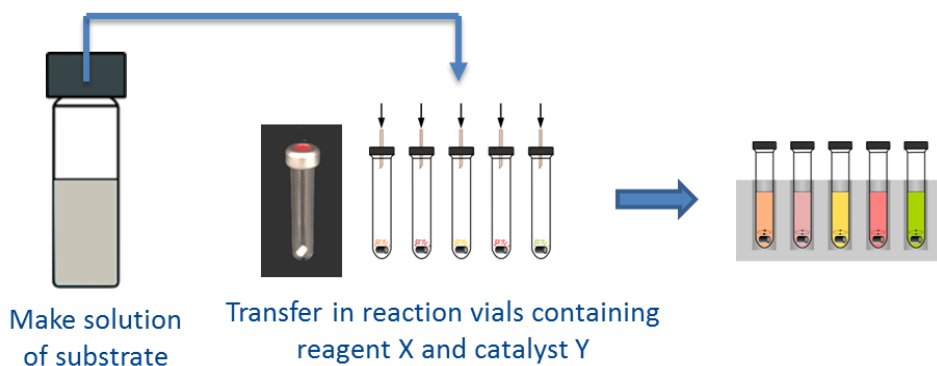


Available Chemistry

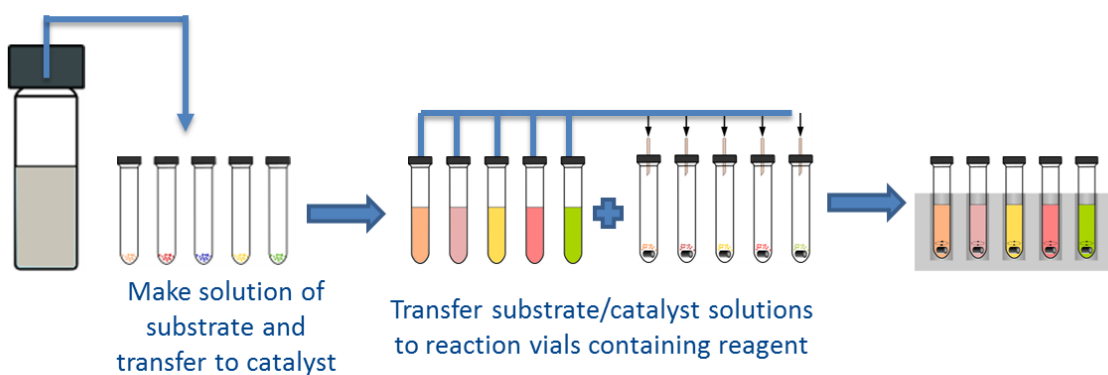
- Cross coupling chemistry
 - Suzuki
 - Pd Precatalysts
 - Copper mediated
 - Amide coupling
- Biomimetic Oxidation
- Glucuronidation
- C-H Functionalization
- Photoredox
- Pre-filled Reaction Vials

General Kit Protocols

When catalyst and reagent CAN be stored together.



When catalyst and reagent CAN NOT be stored together



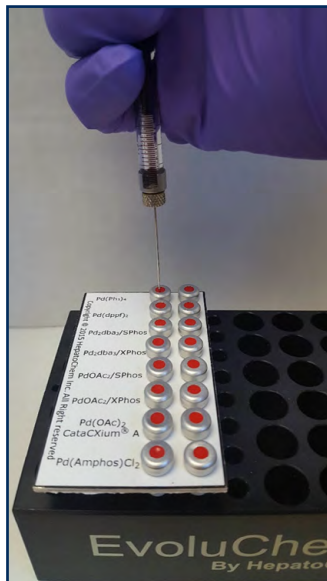
Starter Kit

- Each kit is designed to perform 2-4 sets of reaction conditions.
- To perform a kit we offer a starter kit (HCK1006-01-001) that contains a reaction block, syringe and decapper. This reaction block is compatible with any EvoluChem™ kit. (Patent Pending)



General Kit Protocols

1. Prepare the substrate solution.
2. Add to reaction vials containing the pre-weighed reagents and catalysts using a syringe.



3. Place the reaction block on a standard stir/heat plate and set your reaction temperature.



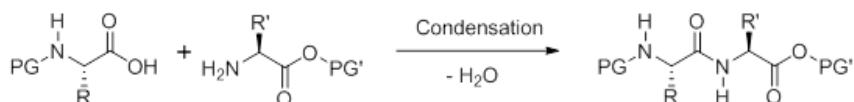
Amide Coupling Kits

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Fast screening of amide coupling reagents

Product overview:

The amide coupling kits are ideal tools for the optimization of amide bond formation. This enables to conveniently screen multiple reaction conditions simultaneously using pre-weighed reagents. We offer pre-selected arrays of reagents and salts or custom arrays depending on your needs.



Standard Protocol: The vials are loaded with 10 μmol of reagent and a stirring bar. Reaction can be performed from 0.2 M in 50 μl to 0.05 M in 200 μl at 1/1 ratio acid and coupling reagent.

Available kits:

Carbodiimide coupling reagent kit

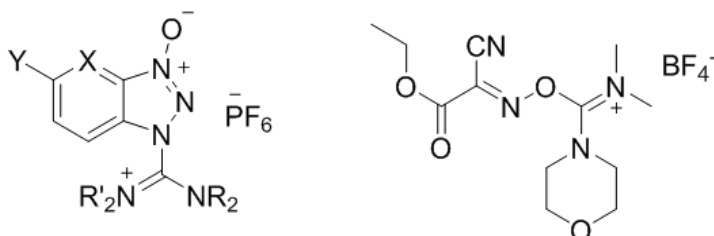


Catalog Ref# HCK1005-01-002: This kit contains the most common DCC derivatives and ethyl(hydroxyimino) cyanoacetate as a safe alternative to HOBt

Name	CAS Number	Quantity	Amount
DCC	538-75-0	4x vial	10 μmol
DIC	693-13-0	4x vial	10 μmol
EDC, HCl	25952-53-8	4x vial	10 μmol
ethyl(hydroxyimino)cyanoacetate	3849-21-6	2x vial	50 μmol



Aminium coupling reagent kit



Catalog Ref# HCK1005-01-004: This kit contains the most common derivatives of HATU and ethyl(hydroxyimino) cyanoacetate as a safe alternative to HOBT.

Name	CAS Number	Quantity	Amount
HATU	148893-10-1	2x vial	10 µmol
HBTU	94790-37-1	2x vial	10 µmol
HCTU	330645-87-9	2x vial	10 µmol
COMU®	1075198-30-9	2x vial	10 µmol
HDMC	1082951-62-9	2x vial	10 µmol
HDMA	958029-37-3	2x vial	10 µmol
ethyl(hydroxyimino)cyanoacetate*	3849-21-6	2x vial	70 µmol

* in kit HCK1005-01-004 only

COMU is a registered trademark of Luxembourg Bio Technologies Ltd.

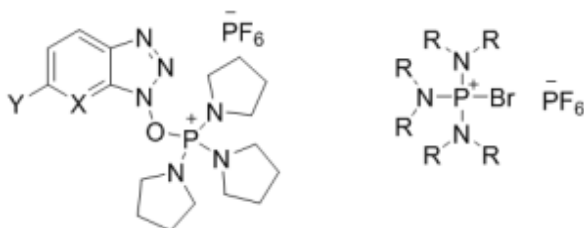




Amide Coupling Kits

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Phosponium coupling reagent kit



Catalog Ref# HCK1005-01-006: This kit contains the most common derivatives of PyBOP and ethyl(hydroxyimino)cynoacetate as a safe alternative to HOBt.

Name	CAS Number	Quantity	Amount
PyBOP®	128625-52-5	2x vial	10 µmol
PyAOP	156311-83-0	2x vial	10 µmol
TPTDP	893413-42-8	2x vial	10 µmol
BroP	50296-37-2	2x vial	10 µmol
PyBrop	132705-51-2	2x vial	10 µmol
DEPBT	56602-33-6	2x vial	10 µmol
ethyl(hydroxyimino) Cynoacetate*	3849-21-6	2x vial	70 µmol

* in kit HCK1005-01-006 only

PyBOP is a registered trademark of Merck KGaA.



Amide Coupling Kits

First choice array kit

Catalog Ref# HCK1005-01-007: The first choice array contains a selection of the most representative coupling reagents from the 3 reagent classes; Carboddimide, Aminium and Phosphonium salts. We included ethyl (hydroxyimino)cynoacetate) as a safe alternative to HOBT. We can also create any custom array that would fit your needs.

Name	CAS Number	Quantity	Amount
DIC	693-13-0	2x vial	10 µmol
EDC, HCl	25952-53-8	2x vial	10 µmol
HATU	148893-10-1	2x vial	10 µmol
COMU®	1075198-30-9	2x vial	10 µmol
PyBOP®	128625-52-5	2x vial	10 µmol
DEPBT	56602-33-6	2x vial	10 µmol
ethyl(hydroxyimino) cynoacetate	3849-21-6	2x vial	70 µmol

PyBOP is a registered trademark of Merck KGaA.

COMU is a registered trademark of Luxembourg Bio Technologies Ltd.





Suzuki-Miyaura Coupling Kits

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Fast screening of cross coupling catalysts, solvents and bases

Product overview:

The Suzuki-Miyaura coupling kits are ideal tools for the investigation of chemical reaction conditions. These kits enable you to conveniently screen multiple reaction simultaneously using pre-weighed catalysts and reagents. The kit contains all reagents to perform the reaction conditions.

Standard Protocol: Substrates solution at 0.15M concentration with 10% catalyst, 2 equivalents of base. 100 μ l reaction volume. Additional conditions can be investigated by changing substrate concentration, amount of base.

Available kits:

HCK1003-01-001: Includes 1 set of reagents and solvents with 6 catalysts & 4 bases

HCK1003-01-002: Includes 1 set of reagents and solvents with 8 catalysts & 4 bases

Kit contents: 4 reaction vials of each catalysts, 4 bases in aqueous solution at 1M concentration and 4 solvents.

Catalysts available: Pd(PPh₃)₄, Pd(dppf)₂Cl₂, PdOAc₂/SPhos, PdOAc₂/XPhos, Pd₂(dba)₃/SPhos, Pd₂(dba)₃/XPhos, PdOAc₂/CataCXium® A and Pd(Amphos)Cl₂

Bases: 1M aqueous solutions of Na₂CO₃, K₂CO₃, K₃PO₄ and Cs₂CO₃

Solvents: Dioxane, n-Butanol, DMF and acetonitrile (sparged with Nitrogen)

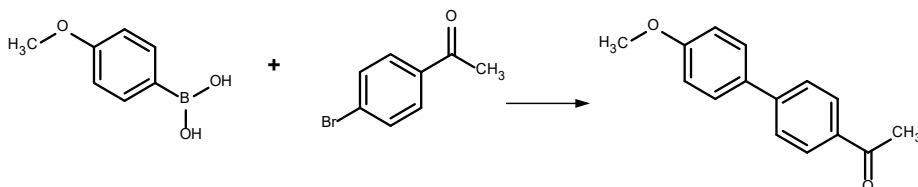
Reaction Conditions

	Catalysts							
	Pd(PPh ₃) ₄	Pd(dppf) ₂ Cl ₂	PdOAc ₂ SPhos	PdOAc ₂ XPhos	Pd ₂ (dba) ₃ SPhos	Pd ₂ (dba) ₃ XPhos	PdOAc ₂ CataCXium® A	Pd(Amphos) Cl ₂
Na ₂ CO ₃	Primary array HCK1003-01-001 6 catalysts & 4 bases						Extended array HCK1003-01-002 8 catalysts & 4 bases	
K ₂ CO ₃								
K ₃ PO ₄								
Cs ₂ CO ₃								

cataCXium is a registered trademark of Evonik Degussa GmbH.

**Test reaction:**

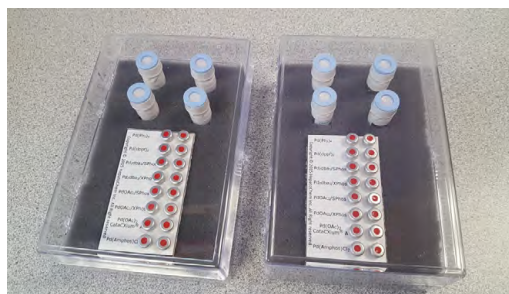
Test reaction has been performed using 4-methoxyphenylboronic acid and 4-bromoacetophenone as substrates.



Catalyst	Base	Solvent	Conversion
$\text{Pd}(\text{Ph}_3)_4$	Na_2CO_3	dioxane	>95%
$\text{Pd}(\text{dppf})_2$	Na_2CO_3	dioxane	>95%
$\text{Pd}_2\text{dba}_3/\text{SPhos}$	K_3PO_4	dioxane	>95%
$\text{Pd}_2\text{dba}_3/\text{XPhos}$	K_3PO_4	dioxane	>95%
$\text{PdOAc}_2/\text{SPhos}$	K_3PO_4	dioxane	>95%
$\text{PdOAc}_2/\text{XPhos}$	K_3PO_4	dioxane	>95%

Protocol using kit HCK1003-01-001

Prepare required volume of a 0.15mol/L solution of combined substrates (of 4-methoxy phenylboronic acid and 4-bromoacetophenone) in dioxane. Using a clean and dry syringe, add 100 μl of substrates solution to a reaction vial and mix with the catalysts using the syringe. Add 30 μl of the selected base solution. (2 equivalents) Stir the reaction vials in the reaction block at 80°C for 5 hours. Remove the vial caps using a decapper. Prepare analytical sample for each reaction condition with 5 μl sample diluted into 200 μl in DMSO. Analyze resulting analytical samples by LC/MS.





Pd Catalyzed Amination Kits

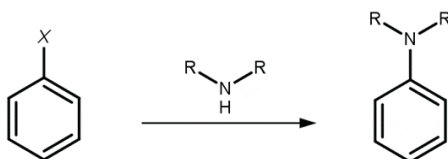
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Fast screening of cross coupling catalysts and bases

Product overview:

The Pd catalyzed amination kits are ideal tools for the investigation of most common precatalysts and bases. These kits enable you to conveniently screen multiple reaction conditions simultaneously using pre-weighed catalysts and reagents. The kit contains all reagents and supplies to perform the reaction conditions. We offer pre-selected arrays of precatalysts and salts or custom arrays depending on your needs.

Palladium catalyzed amination (Buchwald-Hartwig amination) can be performed using a wide variety of palladium sources, ligands, bases and solvents. We designed 2 kits using a combination of palladium precatalysts with either strong bases or weak bases.



Key variables

- Pd Source: Pd(OAc)₂, Pd(dppf)₂Cl₂, Pd-Precatalysts...
- Ligand: Phosphine derivatives, BrettPhos, RuPhos, XPhos...
- Base: Na₂CO₃, Cs₂CO₃, K₃PO₄, LHMDS, NaOtBu, P2-Et...
- Solvent: Dioxane, nBuOH, tBuOH, Toluene, DMF, CH₃CN...
- Temperature: rt -> 120C

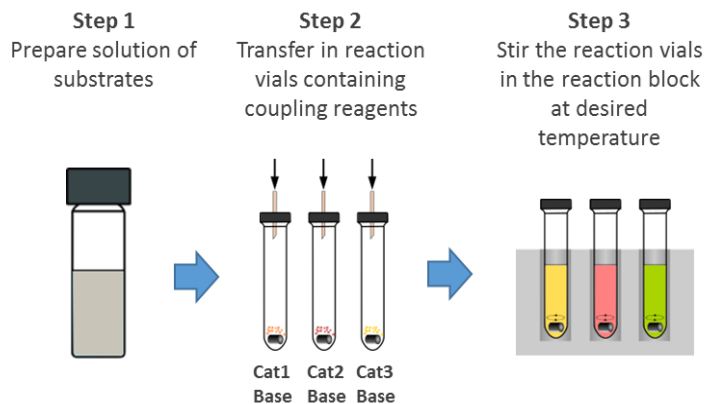


Pd Catalyzed Amination Kits

Weak base arrays

High temperature reaction, compatibility with functional group

3-Step protocol



Pd Amination weak bases kits (Includes 2 set of reagents)

HCK1004-01-002: 5 Catalysts and 3 bases combinations premixed in same vial.

HCK1004-01-004: 8 Catalysts and 3 bases combinations premixed in same vial.

Substrate 15µmol Precatalysts 1.5 µmol (10%)	Weak Bases 30µmol (2 eq)		
	K_2CO_3	Cs_2CO_3	K_3PO_4
BrettPhosG2	Primary array HCK1004-01-002 5 catalysts & 3 bases		
RuPhosG2			
XPhosG2			
tBuXPhosG3			
tBuBrettG3			
Pd_2dba_3 /dppf	Extended array HCK1004-01-004 8 catalysts & 3 bases		
$Pd(PtBu_3)_2$			
$Pd(OAc)_2$ /CataCXium® A			





Pd Catalyzed Amination Kits

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Additional weak base arrays

Pd Amination weak bases kits (Includes 2 set of reagents)

HCK1004-01-006: 8 Catalysts and 3 bases combinations premixed in same vial.

HCK1004-01-007: 8 Catalysts and 4 bases combinations premixed in same vial.

HCK1004-01-008: 8 Catalysts and 3 bases combinations premixed in same vial.

HCK1004-01-009: 8 Catalysts and 4 bases combinations premixed in same vial.

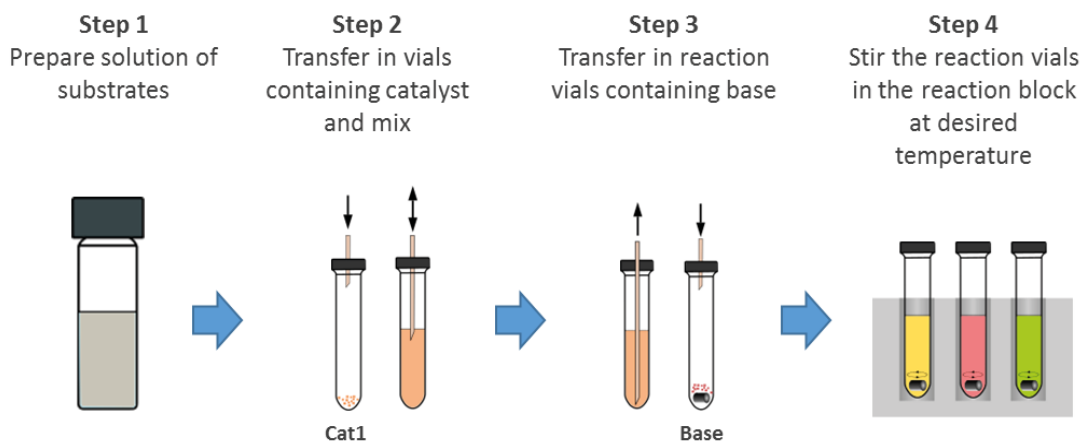
Substrate 15µmol Precatalysts 1.5 µmol (10%)	Weak Bases 30µmol (2 eq)			
	K_2CO_3	Cs_2CO_3	K_3PO_4	KOAc
BrettPhosG2	Primary array HCK1004-01-006 8 catalysts & 3 bases			Extended array HCK1004-01-007 8 catalysts & 4 bases
RuPhosG2				
XPhosG2				
tBuXPhosG3				
tBuBrettG3				
AmphosG3				
AdBrettPhosG3				
CataCXium® A G3				
DavePhosG3	Primary array HCK1004-01-008 8 catalysts & 3 bases			Extended array HCK1004-01-009 8 catalysts & 4 bases
JackiePhosG3				
JosiphosG3				
P(t-Bu)3G4				
PCy3G4				
RockPhosG3				
SPhosG3				
XantphosG3				



Pd Catalyzed Amination Kits

Strong base arrays

No need to handle strong bases. Simple protocol.



Pd Amination strong bases kits (Includes 2 sets of reagents)

HCK1004-01-003: 5 Catalysts and 2 bases in separated vials.

HCK1004-01-005: 8 Catalysts and 3 bases in separated vials.

HCK1004-01-014: 8 Catalysts and 2 bases in separated vials.

Substrate 1.5μmol Precatalysts 1.5μmol (10%)	Strong Bases 22.5μmol (1.5 eq)		
	NaOtBu	LHMDS	P2-Et
BrettPhosG2	<p>Primary array HCK1004-01-003 5 catalysts & 2 bases</p> <p>Extended array HCK1004-01-014 8 catalysts & 2 bases</p>		<p>Extended array HCK1004-01-005 8 catalysts & 3 bases</p>
RuPhosG2			
XPhosG2			
tBuXPhosG3			
tBuBrettG3			
Pd2dba3/ dppf			
Pd(PtBu ₃) ₂			
Pd(OAc) ₂ /CataCXium® A			





Pd Catalyzed Amination Kits

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Additional strong base arrays

Pd Amination strong bases kits (Includes 2 sets of reagents)

HCK1004-01-010: 8 Catalysts and 2 bases combinations premixed in same vial.

HCK1004-01-011: 8 Catalysts and 3 bases combinations premixed in same vial.

HCK1004-01-012: 8 Catalysts and 2 bases combinations premixed in same vial.

HCK1004-01-013: 8 Catalysts and 3 bases combinations premixed in same vial.

Substrate 15µmol Precatalysts 1.5µmol (10%)	Strong Bases 22.5µmol (1.5 eq)		
	NaOtBu	LHMDS	P2-Et
BrettPhosG2	<p>Primary array HCK1004-01-010 8 catalysts & 2 bases</p>		<p>Extended array HCK1004-01-011 8 catalysts & 3 bases</p>
RuPhosG2			
XPhosG2			
tBuXPhosG3			
tBuBrettG3			
AmphosG3			
AdBrettPhosG3			
CataCXium® A G3			
DavePhosG3	<p>Primary array HCK1004-01-012 8 catalysts & 2 bases</p>		<p>Extended array HCK1004-01-013 8 catalysts & 3 bases</p>
JackiePhosG3			
JosiphosG3			
P(t-Bu)3G4			
PCy3G4			
RockPhosG3			
SPhosG3			
XantphosG3			



Pd Catalyzed Amination Kits

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*Weak & strong base array***Pd Amination weak 7 strong bases kits** (Includes 2 set of reagents)**HCK1004-01-015:** 8 Catalysts and Cs_2CO_3 combinations premixed in same vial and 8 Catalysts and NaOtBu in separated vials

Substrate 15 μmol	Strong Bases 22.5 μmol (1.5 eq)	Weak Bases 30 μmol (2 eq)
Precatalysts 1.5 μmol (10%)	NaOtBu	Cs_2CO_3
BrettPhosG2	<p>Array HCK1004-01-015 8 catalysts & 2 bases</p>	
RuPhosG2		
XPhosG2		
tBuXPhosG3		
tBuBrettG3		
Pd_2dba_3 /dppf		
$\text{Pd}(\text{PtBu}_3)_2$		
$\text{Pd}(\text{OAc})_2$ /CataCXium® A		





Pd XPhos/SPhos Precatalysts Kits

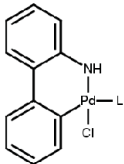
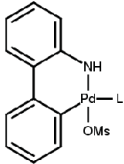
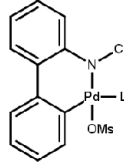
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Fast screening of cross coupling catalysts, solvents and bases

Product overview:

The palladium precatalysts kits are ideal tools for the investigation of cross-coupling reaction conditions. These kits enable you to conveniently screen multiple reaction conditions simultaneously using pre-weighed catalysts and reagents. The kit contains both precatalysts and bases to perform the reaction conditions. We offer pre-selected arrays of precatalysts and salts or custom arrays depending on your needs.

Standard Protocol: The vials are loaded with 1.5 μmol of precatalyst, 30 μmol of base and a stirring bar. The bases are K_3PO_4 and K_2CO_3 (solid and anhydrous).

Precatalysts 1.5 μmol	Ligand	Bases 30 μmol
	SPhos or XPhos	K_2CO_3 or K_3PO_4
2 nd Generation		
	SPhos or XPhos	K_2CO_3 or K_3PO_4
3 rd Generation		
	SPhos or XPhos	K_2CO_3 or K_3PO_4
4 th Generation		



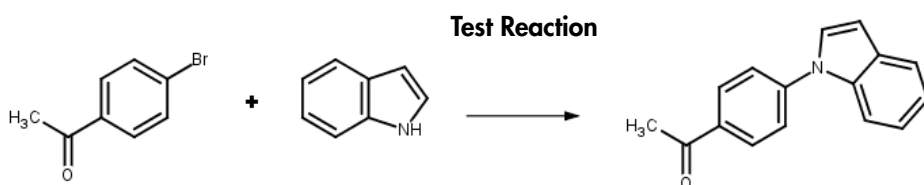
Ullmann Reaction Kit

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Fast screening of cross coupling catalysts, solvents and bases

Product overview:

The Ullmann reaction is an interesting alternative to palladium based cross-coupling chemistry. These reaction conditions work with amide, aromatic amine or indole. The Ullmann reaction kit enables to conveniently screen multiple ligands and bases simultaneously using pre-weighed catalysts and reagents.

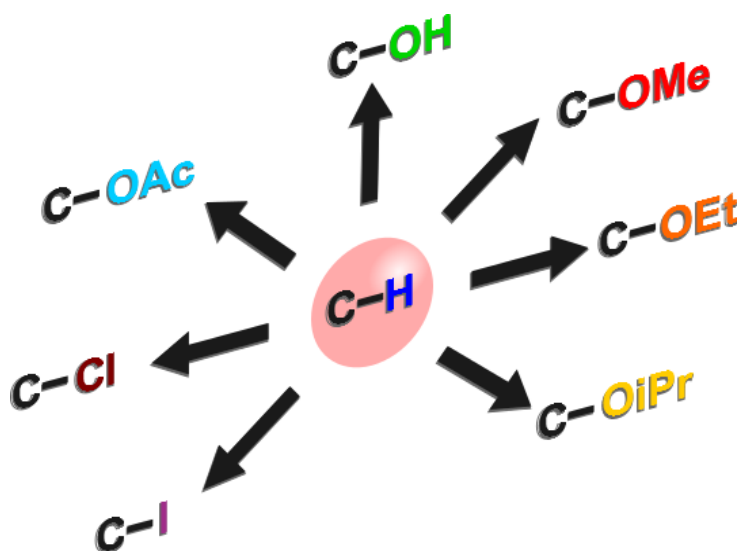


Standard Protocol: 2ml vial with screw cap and stirring bar, 50µmol of substrates in 500µl solvent (DMF, DMSO, dioxane or acetonitrile, 0.1 mol/L concentration) with 0.1 equivalent of CuI, 0.2 equivalent of ligand and 1.1 equivalent of base.

Kit contents: 2 reaction vials of each catalyst system and base, 36 reaction vials total

	Copper Iodide / Ligand					
	No Ligand	Phenanthroline	S-Proline	1,2-cyclohexane diamine	N,N'-Dimethyl ethylene diamine	Isobutyl cyclohexanone
Cs ₂ CO ₃	array HCK1011-01-001 6 catalyst systems & 3 bases					
K ₂ CO ₃						
K ₂ PO ₄						





Lead Diversification on your Bench

Lead diversification is becoming a viable alternative to de novo synthesis as C-H functionalization chemistry offers many possible transformations including hydroxylation, acetoxylation, methoxylation, alkylation and fluorination among others. However each desired transformation can quickly become a mini research problem in and of itself, when the end goal is to quickly acquire the analogue for test. A real world drug program does not have the time to develop new reaction conditions in order to make analogues that ultimately may not be active.

Our novel and effective lead diversification tool box addresses all these issues by offering a rapid, practical and cost-effective solution for analogue generation. This approach permits the parallel screening of a selected set of catalytic conditions focusing on generating diversity in an approach which is totally orthogonal and complementary to conventional synthetic methods.



Diversity Kit: 4 different functionalizations

C-H Alkoxylation is one of the most common C-H functionalization described in literature. Our kit is designed to conveniently screen both alkoxylation & acetoxylation reaction conditions using Pd(OAc)₂ as catalyst and several oxidants and additives.

Kit HCK1007-01-001: Includes 2 set of reagents; Catalyst and oxidant are mixed in same vial. Substrate solution is prepared in DMF as one common stock and added to all 4 for solvents. Screen four solvents with three reaction conditions. 10 mol% Pd(OAc)₂, 1 equiv. PhI(OAc)₂.

Kit features:

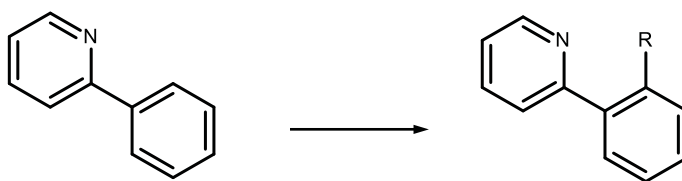
Vials are filled with 10 mol% Pd(OAc)₂, 1 equiv. PhIOAc₂.

The substrate solution is made in DMF to facilitate the screening of solvents.

Reactions run with 5 μmol substrate per reaction. 50 to 200 μl reaction volume (0.025 M to 0.1 M substrate concentration). Reactions from RT to 80 C.

Transformation	---	CuOAc ₂	Ag ₂ CO ₃
H => OMe			
H => OEt		10 mol% PdOAc ₂	
H => OiPr		1 equiv. PhIOAc ₂	
H => OAc			

Test Reaction. (Effect of DMF)



Conversion to mono-substitution

Transformation	---	CuOAc ₂	Ag ₂ CO ₃
H => OMe	45% (54%)	57% (70%)	50% (59%)
H => OEt	12% (18%)	22% (24%)	12% (18%)
H => OiPr	3% (5%)	4% (15%)	5% (11%)
H => OAc	7% (17%)	3% (11%)	11% (22%)

In parenthesis without DMF





Salt Effect on C-H functionalization

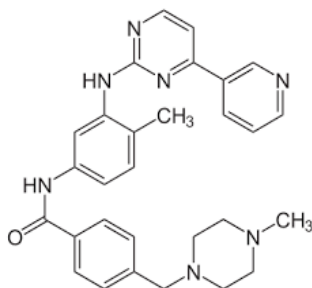
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Optimization Kit: 5 different salts

It has been reported that salt can improved and promote C-H functionalization. Our kit is designed to facilitate the screen of multiple salts simultaneously. These kits contains 5 different salts CuOAc_2 , Ag_2CO_3 , K_2CO_3 , Cs_2CO_3 and MgSO_4

Kit HCK1007-01-002: Screen 1 solvent with 12 reaction conditions. 10 mol% $\text{Pd}(\text{OAc})_2$, 1 or 2 equivalents of $\text{PhI}(\text{OAc})_2$ with 5 different salts. Prepare one solution in solvent or mixture in DMF if solubility issues.

---	Array with 12 reaction conditions				
	CuOAc_2	Ag_2CO_3	K_2CO_3	Cs_2CO_3	MgSO_4
10% $\text{Pd}(\text{OAc})_2$		1 equiv. $\text{PhI}(\text{OAc})_2$			
10% $\text{Pd}(\text{OAc})_2$		2 equiv. $\text{PhI}(\text{OAc})_2$			



Methoxylation of Imatinib

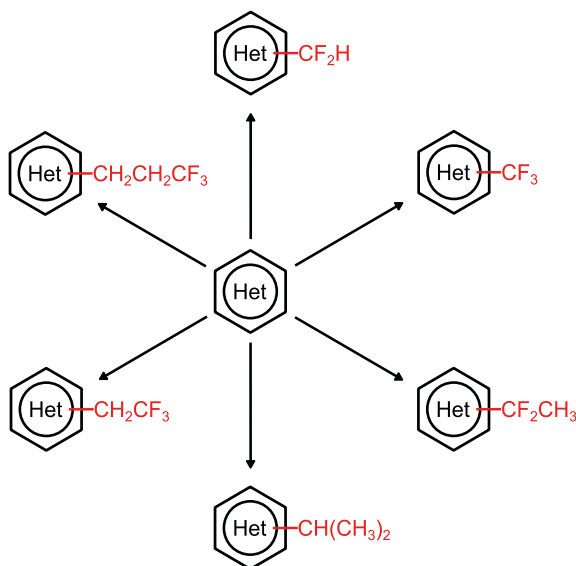
Catalyst	Oxidant	Salt	% Methoxylation	% Dimethoxylation
$\text{Pd}(\text{OAc})_2$	$\text{PhI}(\text{OAc})_2$	—	29.6	5.2
$\text{Pd}(\text{OAc})_2$	$\text{PhI}(\text{OAc})_2$	$\text{Cu}(\text{OAc})_2$	9.6	2.5
$\text{Pd}(\text{OAc})_2$	$\text{PhI}(\text{OAc})_2$	Ag_2CO_3	33.5	7.6
$\text{Pd}(\text{OAc})_2$	$\text{PhI}(\text{OAc})_2$	K_2CO_3	30.1	13.1
$\text{Pd}(\text{OAc})_2$	$\text{PhI}(\text{OAc})_2$	Cs_2CO_3	41.5	16.4
$\text{Pd}(\text{OAc})_2$	$\text{PhI}(\text{OAc})_2$	MgSO_4	24.0	4.5

Reaction conditions: 10% $\text{Pd}(\text{OAc})_2$, 1 equiv. $\text{PhI}(\text{OAc})_2$, 0.025 M at 60°C for 18h.

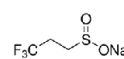
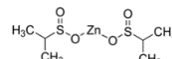
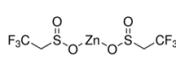
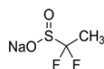
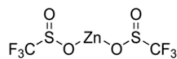
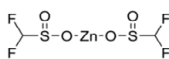
**Product overview: HCK1013-01-001**

The sulfinate alkylation reaction described by Prof. Baran is a powerful late stage functionalization tool. Our kit allows to conveniently produce in one step 6 different analogues of a lead compound in mg quantities. Each reaction vial contains 100µmol of sulfinate alkylation reagent (pre-weighed) and a stirring bar to react with 50µmol of substrate. C-H functionalization will primarily occur on electron-deficient heteroarenes at one or several positions.

Standard Protocol: Several solvents or solvent mixtures can be used to perform the reaction (DMSO, DMSO/H₂O/TFA, CHCl₃/H₂O/TFA...). A solution of substrate is made with 300µmol of substrate in 2.1ml selected solvent. 350µl is added in each vial followed by 20.8µl of TBuOOH (70% in water). The reactions are allowed to stir at 50°C for 12-24 hours.

6 Different Diversification Groups**HCK1013-01-001**

Kit contents: 2 reaction vials of each reagents (100µmol), 12 reaction vials total.

Sulfinate Alkylation Reagents (2 Vials of each)Zinc difluoro
methane sulfinateZinc trifluoro
methane sulfinateSodium
1,1-difluoro
ethane sulfinateZinc trifluoro
ethane sulfinateZinc isopropyl
sulfinateSodium trifluoro
propyl sulfinate

MW (g/mol)	295.55	331.53	152.10	359.58	279.69	184.11
CAS Number	1355729-38-2	39971-65-8	1422738-67-7	1416821-53-8	1416821-55-0	1263377-91-8

Literature references:

Ming Yan, Julian C. Lo, Jacob T. Edwards, and Phil S. Baran *J. Am. Chem. Soc.*, **2016**, *138* (39), pp 12692–12714Fionn O'Hara, Donna G. Blackmond*, and Phil S. Baran *J. Am. Chem. Soc.*, **2013**, *135* (32), pp 12122–12134



Photocatalytic Alkylation Diversification Kit

26

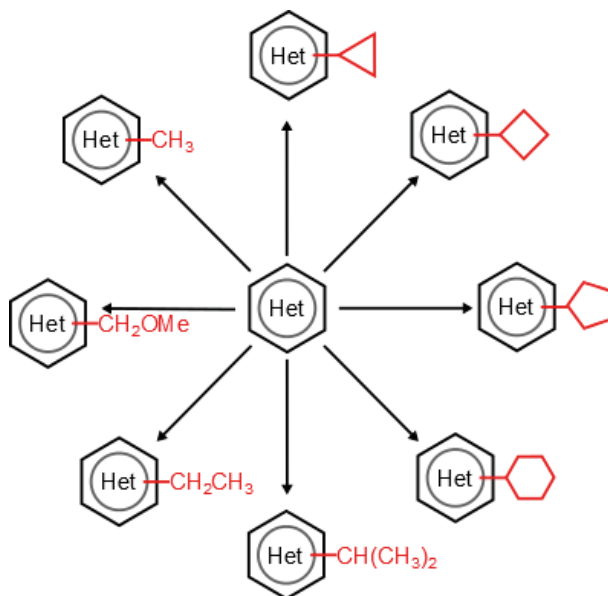
Product overview: HCK1016-01-001

The trifluoroborate alkylation reaction (Minisci reaction) described by Prof. Molander is a powerful late stage functionalization tool. Our kit allows to conveniently produce in one step 8 different analogues of a lead compound in mg quantities. Each reaction vial contains 75µmol of trifluoroborate alkylation reagent (pre-weighed) and a stirring bar to react with 50µmol of substrate. C-H functionalization will primarily occur on electron-deficient heteroarenes at one or several positions.

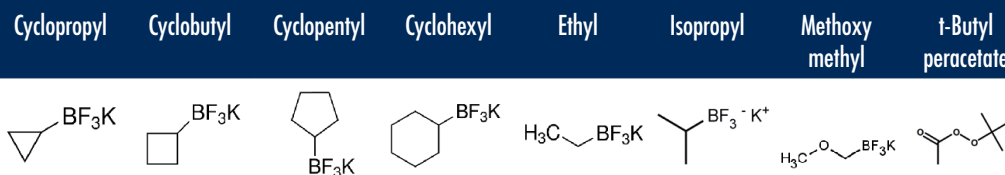
Kit contents HCK1016-01-001: 2 reaction vials of each BF₃K reagents (75µmol) and K₂S₂O₈ (100µmol), 2 vials of photocatalysts and 2 vials of TFA, 16 reaction vials total

Kit Protocol: For each kit, 4mL of a 0.1M solution of substrate (400 µmol total) in DMSO is prepared with 8.98mg photocatalyst Ir(dF-CF₃-ppy)₂(dtbpy) (8µmol, 2 mol%) and trifluoroacetic acid (153µL, 5 equiv) included. The solution is sparged with nitrogen.

Each vial contains 27.0mg K₂S₂O₈ (100µmol, 2 equiv.) and 1.5 equiv. BF₃K reagent (75µmol) in 2ml vial equipped with stir bar and Teflon septa. Alternatively for methylation, vial contains 39.9µL of TBPA tert-butyl peracetate. Vials are prepared under argon. 500µL of substrate solution added via syringe and vial is placed in PhotoRedox Box equipped with PAR 6200K white light. Reaction is stirred for 2-24 hr.

8 Different Diversification Groups**HCK1016-01-001**

Photocatalytic Alkylation Reagents (2 Vials of each)



MW (g/mol)	147.98	162.00	176.03	190.06	135.97	149.99	151.97	132.16
CAS Number	1065010-87-8	1065010-88-9	1040745-70-7	446065-11-8	44248-07-9	1041642-13-0	910251-11-5	107-71-1

Literature references:

Jennifer K. Matsui, David N. Primer and Gary A. Molander Chem. Sci., 2017,8, 3512-3522

Tim Cernak, Kevin D. Dykstra, Sriram Tyagarajan, Petr Vachal and Shane W. Kraska Chem. Soc. Rev., 2016,45, 546-576

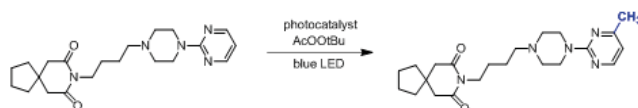


Photocatalytic Methylation Array

27

Product overview: HCK1009-01-001

With the EvoluChem photomethylation kit, we have demonstrated the reproducibility of both the photomethylation kit and the device.



Kit Protocol: The typical protocol is performed at 0.05mol/l concentration reaction condition using a solution of substrate in 4 different solvents. Each sealed reaction vial contains 0.1 μmol of photocatalyst and 12.5μmol of tert-butyl peracetate. Based on the concentration of the substrate stock solution and the volume added, the following reaction stoichiometry can be achieved with the standard photomethylation kit.

	$[\text{Ir}(\text{dF}(\text{CF}_3)\text{ppy})_2(\text{dtbbpy})]\text{PF}_6$	$[\text{Ir}(\text{ppy})_2(\text{dtbbpy})]\text{PF}_6$
50/50 Acetonitrile/TFA	5 equiv. tert-butyl peracetic acid HCK1009-01-001	
Acetonitrile (10 equiv. TFA)		
Acetic acid (10 equiv. TFA)		
Acetic acid/H ₂ O (10 equiv. TFA)		

Kit contents HCK1009-01-001

Part number	Description	Quantity	Amount
K-0132-01-001	$\text{Ir}[\text{dF}(\text{CF}_3)\text{ppy}]_2(\text{dtbbpy})[\text{PF}_6]$ / tert-butyl peracetate	8x vial	0.1 μmol / 12.5 umol
K-0133-01-001	$\text{Ir}[(\text{ppy})_2(\text{dtbbpy})][\text{PF}_6]$ / tert-butyl peracetate	8x vial	0.1 μmol / 12.5 umol
K-0010-03-001	50/50 Acetonitrile/ trifluoroacetic acid	1x vial	1 ml
K-0011-03-001	Acetonitrile (10 equiv. trifluoroacetic acid*)	1x vial	1 ml
K-0012-03-001	Acetic acid (10 equiv. trifluoroacetic acid*)	1x vial	1 ml
K-0012-03-001	Acetic acid /water (10 equiv. trifluoroacetic acid*)	1x vial	1 ml
K-0003-04-001	Substrate stock vial 1	1x vial	–
K-0003-04-002	Substrate stock vial 2	1x vial	–
K-0003-04-003	Substrate stock vial 3	1x vial	–
K-0003-04-004	Substrate stock vial 4	1x vial	–





Fluorination Kit

Product overview: HCK1008-01-001

Fluorination is one of the most interesting C-H functionalization described in literature. Our kit is designed to conveniently screen fluorination reaction conditions using PdOAc₂ as catalyst in presence of most common fluorine sources; Silver Fluoride AgF, 1-fluoro-2,4,6-trimethyl-pyridinium triflate (TMPyF), SelectFluor[®], and N-fluorobenzenesulfonimide (NFSI) and oxidant Bis(tert-butylcarbonyloxy iodobenzene (PhIOPiv).

Protocol: The typical protocol is performed at 0.05mol/l concentration of substrate with four different fluorinating agents. When present, reaction includes 10mol% catalyst and 2 equiv. of oxidant. Each kit contains two sets of reagents allowing the screening of two different solvents. Preferred solvents for the fluorination kit include a 5% isobutyronitrile (iPrCN)/dichloroethane mixture, dichloroethane, acetonitrile and dichloromethane. If low solubility of substrate is observed, it is possible to decrease substrate concentration by increasing the reaction volume while maintaining the stoichiometry of the reaction. Maximum volume for reaction vial is 200µl.

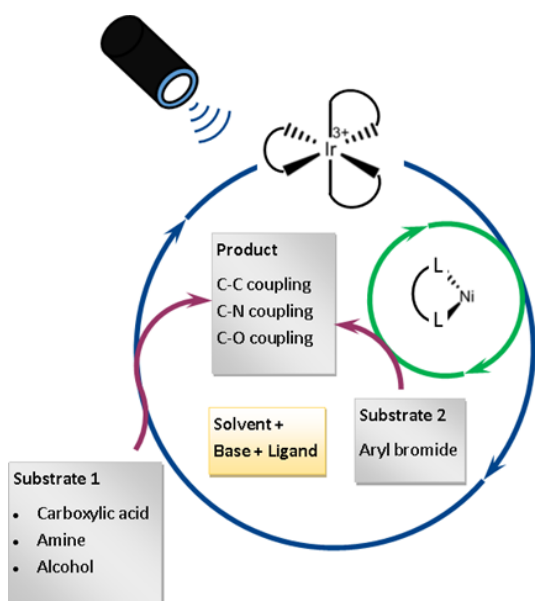
12 conditions with AgF, TMPyF, Selectfluor and NFSI

Kit HCK1008-01-001: Includes 2 sets of reagents; Catalyst and oxidant are mixed in the same vial.

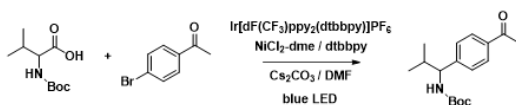
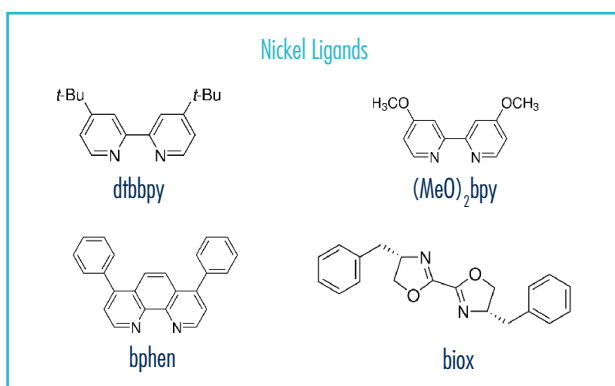
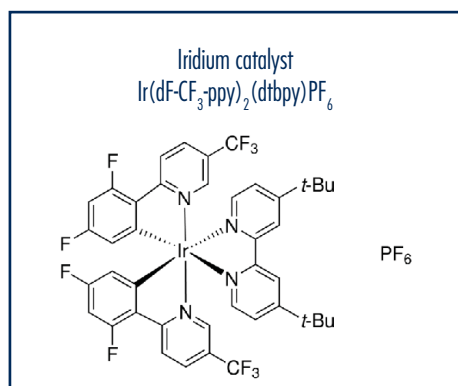
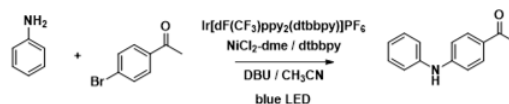
Part number	Vial	Quantity	Amount
K-0228-01-001	Pd(OAc) ₂ / 5 eq. AgF/ MgSO ₄ / PhIOPiv	2x vial	0.25µmol/ 12.5µmol/ 5µmol/ 5µmol
K-0229-01-001	Pd(OAc) ₂ / 5 eq. AgF/ PhIOPiv	2x vial	0.25µmol/ 12.5µmol/ 5µmol
K-0230-01-001	Pd(OAc) ₂ / 10 eq. AgF/ PhIOPiv	2x vial	0.25µmol/ 25µmol/ 5µmol
K-0231-01-001	Pd(OAc) ₂ / TMPyF	2x vial	0.25µmol/ 5µmol
K-0232-01-001	Pd(OAc) ₂ / SelectFluor [®]	2x vial	0.25µmol/ 5µmol
K-0233-01-001	Pd(OAc) ₂ / NFSI	2x vial	0.25µmol/ 5µmol
K-0234-01-001	PhIOPiv/ TMPyF	2x vial	5µmol/ 5µmol
K-0235-01-001	PhIOPiv/ SelectFluor [®]	2x vial	5µmol/ 5µmol
K-0236-01-001	PhIOPiv/ NFSI	2x vial	5µmol/ 5µmol
K-0237-01-001	TMPyF	2x vial	5µmol
K-0238-01-001	SelectFluor [®]	2x vial	5µmol
K-0239-01-001	NFSI	2x vial	5µmol

**Product overview:**

In recent years photoredox chemistry has become a powerful tool for chemical synthesis. Many reaction conditions have been reported in the literature using a wide range of catalysts and reagents. However, often these reactions are highly substrate, solvent and base specific. In order to facilitate the screening of common photochemistry reactions, HepatoChem has released a series of kits combining common Iridium, Nickel, ligand and base combinations to achieve successful cross-coupling transformations.

**Ir/Ni catalysis versatility**

Depending on the ligand, base and solvent, the Ir/Ni catalytic systems can perform different types of cross-coupling reaction.

C-C coupling**C-N coupling**



Iridium/Nickel Photoredox Kits

30

4 Ir/Ni photoredox kits available

Standard Protocol:

5 μmol of substrates in 100 μl solvent with Ir catalyst (2 mol %), $\text{NiCl}_2 \cdot \text{dme}$ (10 mol %), ligand (10 mol %), and 3 equivalent of base.

Features

- 0.3 ml vial with crimp cap and stirring bar
- Pre-weighed reagents and catalysts
- Temperature maintained at RT
- Reagents are packaged under inert atmosphere

Ir/Ni base and solvent screen kit 1

With Iridium catalyst $\text{Ir}(\text{dF-CF}_3\text{-ppy})_2(\text{dtbbpy})\text{PF}_6$ and Ni ligand dtbbpy

	CS_2CO_3	K_3PO_4	K_2HPO_4	KOH	Li_2CO_3	K_2CO_3	DABCO	DBU
Solvent A	2 sets of 8 bases per kit (16 total vials) HCK1009-01-002							
Solvent B								

Ir/Ni base and ligand screen kit 2 & 3

With Iridium catalyst $\text{Ir}(\text{dF-CF}_3\text{-ppy})_2(\text{dtbbpy})[\text{PF}_6]$

	Cs_2CO_3	K_3PO_4	K_2HPO_4	K_2CO_3	DABCO	DBU
dtbbpy	2 sets of 4 bases and 4 ligands per kit (32 total vials) HCK1009-01-003				2 sets of 6 bases and 4 ligands per kit (48 total vials)	
bphen						
$(\text{MeO})_2\text{bpy}$						
biox						

Ir/Ni base and Ir catalyst screen kit 4

	Cs_2CO_3	CsF	DBU
$\text{Ir}(\text{dF-CF}_3\text{-ppy})_2(\text{dtbbpy})\text{PF}_6$	2 sets of 3 bases and 6 Ir catalysts per kit (36 total vials) HCK1009-01-005		
$\text{Ir}(\text{dtbbpy})(\text{ppy})_2\text{PF}_6$			
$\text{Ir}(\text{dF-CF}_3\text{-ppy})_2(\text{bpy})\text{PF}_6$			
$\text{Ir}(\text{dF-ppy})_3$			
$\text{Ir}(\text{dmppy})_2(\text{dtbbpy})\text{PF}_6$			
$\text{Ir}(\text{dF-CH}_3\text{-ppy})_2(\text{dtbbpy})\text{PF}_6$			

With
Ni ligand dtbbpy

Biomimetic Oxidation Kits

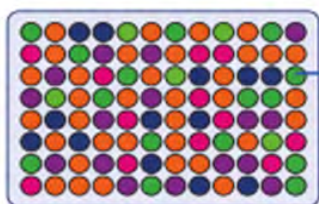
Metabolite Production Made Easy

Product overview:

HepatoChem has developed a revolutionary way to screen, optimize, and produce metabolites directly from drug candidates. The BMO Kit exploits an optimized panel of catalytic chemical reaction conditions using organometallic catalysts in a multi-well parallel format. This tool mimics the suite of cytochrome P450 enzymes (CYP) present in human hepatocytes, offering the researcher a unique synthetic chemical liver.

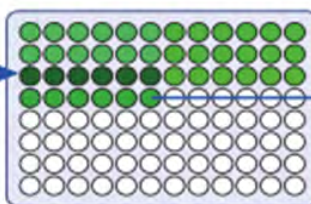
Our BMO kits enable, in three simple steps, synthesis of metabolites directly from the parent drug.

Screen



1) Perform the primary screen.
Select desired metabolite wells.

Optimize



2) Perform the optimization kit. Identify best production conditions.

Produce



3) Scale-up and isolate your metabolite.

Available Biomimetic Oxidation Kits

BMO Screening Kit

Perform the primary screen. Select desired metabolite wells.
Order corresponding optimization kit.
Complete kit includes all solvents and reagents for 2x25 screening reaction conditions.
2 plates included.

HCK1001-01-001

BMO Optimization Kit

Perform the optimization kit. Identify best production conditions. Order corresponding production kit.
Complete kit includes all solvents and reagents for optimization of selected screening reaction conditions.
1 plate included.

HCK1001-02-xxx

BMO Production Kit

Scale-up and produce your metabolite.
Complete kit includes all solvents and reagents for your metabolite at 12.5 μmol scale or more.

HCK1001-03-xxx



Glucuronidation Kits

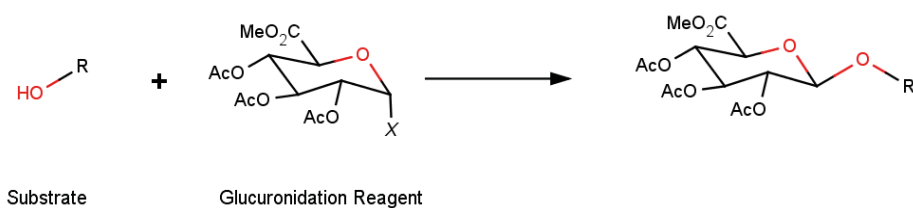
Metabolite Production Made Easy

Product overview:

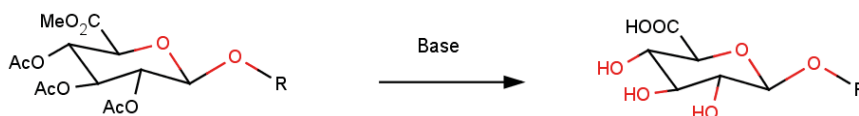
HepatoChem has developed a revolutionary way to screen, optimize, and produce metabolites directly from drug candidates. The glucuronidation kit exploits an optimized panel of chemical reaction conditions using coupling reagents in a multi-well parallel format. This kit suite is designed to survey chemical reaction conditions that produce O glucuronides. The reaction conditions are derivative of the Koenigs-Knorr reaction.

This is a 2 step process:

1- Coupling with glucuronidation reagent



2- De-protection with base solution



This kit is using 4 different salts (Ag_2CO_3 , Ag_2O , Cs_2CO_3 and Na_2CO_3) with 2 different solvents (CH_3CN and CHCl_3), 8 reaction conditions as well as 2 reaction conditions using BF_3 .

The first step is performed at 25°C overnight except for BF_3 conditions which are performed at 0°C. Because the reactivity of the substrate may vary, different reaction temperatures or reaction time may be explored. Also we encourage the user to analyze the reaction mixture after the first step, in order to identify the reaction conditions that form the most protected glucuronide product.

The second step consists of de-protecting the intermediate using NaOH/MeOH solution or LiOH/MeOH solution. The optimum quantity needed for the protection may vary due to the functional groups present on the substrate as well as the stability of the final product.

Available Glucuronidation Kits

Glucuronidation refill kit

Glucuronidation array kit (10 reaction conditions) to generate O glucuronide metabolite. This kit includes 2 refill of reagents.

HCK1002-01-001

Glucuronidation optimization kit

Optimization array kit (4 reaction conditions) to optimize O glucuronide metabolite production. This kit includes 4 refill of reagents.

HCK1002-02-XXX

Glucuronidation production kit

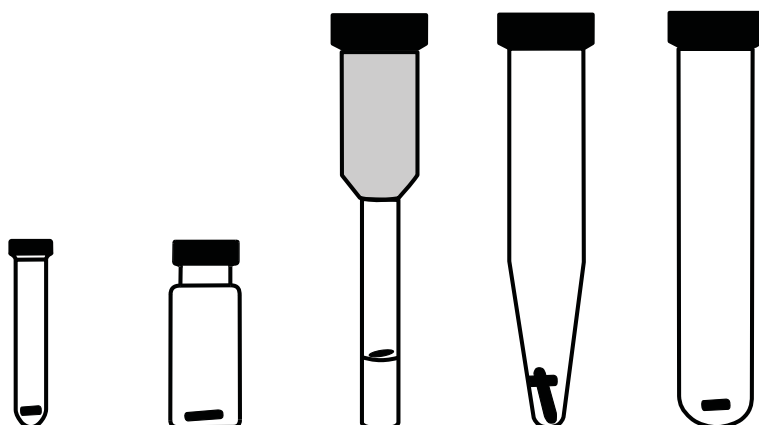
Production kit to generate O glucuronide metabolite at 12.5 μmol scale. This kit includes 4 refill of reagents

HCK1002-03-XXX

Pre-Filled Reaction Vials

Weak Base Reaction Vials

- Pre-filled reaction vials with base and stir bar
- Easy access to hydroscopic base salts (Cs_2CO_3 & K_3PO_4)
- 5 bases available
- Quick base screen
- Multifomat/scale available



	Standard Heating Vials			Microwave Heating Vials		
Reaction Volume	0.05 - 0.2ml	0.5-1ml	0.2-0.5ml	0.5-2ml	2-5ml	
Vial Size	6x32mm	12x32mm	8x83mm	16x83mm	16x83mm	
Base Amount	20µmol	200µmol	60µmol	200µmol	500µmol	
Available base kits (each kit contains 5 reaction vials)						
CS_2CO_3	HCK1010-01-001	HCK1010-02-001	HCK1010-03-001	HCK1010-04-001	HCK1010-05-001	
K_3PO_4	HCK1010-01-002	HCK1010-02-002	HCK1010-03-002	HCK1010-04-002	HCK1010-05-002	
K_2CO_3	HCK1010-01-003	HCK1010-02-003	HCK1010-03-003	HCK1010-04-003	HCK1010-05-003	
Na_2CO_3	HCK1010-01-004	HCK1010-02-004	HCK1010-03-004	HCK1010-04-004	HCK1010-05-004	
NaHCO_3	HCK1010-01-005	HCK1010-02-005	HCK1010-03-005	HCK1010-04-005	HCK1010-05-005	



EvoluChem Supplies

Available Supplies:

Item	Reference	Description
Starter Kit	HCK1006-01-001	1 reaction block (24x2ml vial, 32x0.3ml vial, 4x2Dram vial), 1 decapper for 8mm crimped vial and 1 syringe Hamilton 81000.
EvoluChem Block fits 3 types of vials	HCK1006-01-002	1 reaction block (24x2ml vial, 32x0.3ml vial, 4x2Dram vial)
EvoluChem Block fits 96x0.3ml vials	HCK1006-01-003	1 reaction block (96x0.3ml vial)
Micro stir bar 2x2mm	HCK1006-01-012	50 stir bars
6mm vials 0.3ml	HCK1006-01-013	100 vials
Crimp caps for 6mm vial	HCK1006-01-014	100 crimp caps
Micro stir bar 2x7mm	HCK1006-01-015	50 stir bars



HCK1006-01-001



HCK1006-01-002



HCK1006-01-003



HCK1006-01-012



HCK1006-01-013



HCK1006-01-014



HCK1006-01-015

All catalysts and reagents are purchased from authorized distributors.

cataCXium is a registered trademark of Evonik Degussa GmbH, protected by patent US 7,148,176
Palladium Precatalysts G2 and G3 are protected by patents US 6,395,916 and US 6,307,087
Palladium Precatalysts G4 are protected by patents PCT/US2013/030779, US Serial No. 13/799620

COMU is a registered trademark of Luxembourg Bio Technologies Ltd.

PyBOP is a registered trademark of Merck KGaA.

Catalog number	Kit	Description
HCK1001-01-001	BMO screen	Perform the primary screen. Select desired metabolite wells. Order corresponding optimization kit.
HCK1001-02-xxx	BMO optimization	Perform the optimization kit. Identify best production conditions. Order corresponding production kit.
HCK1001-03-xxx-10	BMO production 125umol	Scale-up and produce your metabolite.
HCK1002-01-001	Glucuronidation kit refill	This kit allows to identify reaction condition that produces O glucuronide adduct of a drug compound.
HCK1002-02-xxx	Glucuronidation kit optimization	Optimization array kit (4 reaction conditions) to optimize O glucuronide metabolite production.
HCK1002-03-xxx	Glucuronidation kit Production	Production kit to generate O glucuronide metabolite at 12.5 µmol scale.
HCK1003-01-001	Suzuki array Kit 1	1 set of 6 catalysts , 4 base solutions and 4 solvents. 24 reaction vials total
HCK1003-01-002	Suzuki array Kit 2	1 set of 8 catalysts , 4 base solutions and 4 solvents. 32 reaction vials total
HCK1004-01-002	Pd amination weak base array 1	2 sets of 15 reagent combinations premixed in same vial; 5 Catalysts and 3 bases. 30 reaction vials total
HCK1004-01-003	Pd amination strong base array 1	2 sets of 10 reagent combinations in separated vials; 5 Catalysts and 2 bases. 20 reaction vials total
HCK1004-01-004	Pd amination weak base array 2	2 sets of 24 reagent combinations premixed in same vial; 8 Catalysts and 3 bases. 48 reaction vials total
HCK1004-01-005	Pd amination strong base array 2	2 sets of 24 reagent combinations in separated vials; 8 Catalysts and 3 bases . 48 reaction vials total
HCK1004-01-006	Pd amination weak base array 3	2 sets of 24 reagent combinations premixed in same vial; 8 Catalysts and 3 bases.48 reaction vials total
HCK1004-01-007	Pd amination weak base array 4	2 sets of 32 reagent combinations premixed in same vial; 8 Catalysts and 4 bases. 64 reaction vials total
HCK1004-01-008	Pd amination weak base array 5	2 sets of 24 reagent combinations premixed in same vial; 8 Catalysts and 3 bases. 48 reaction vials total
HCK1004-01-009	Pd amination weak base array 6	2 sets of 32 reagent combinations premixed in same vial; 8 Catalysts and 4 bases. 64 reaction vials total
HCK1004-01-010	Pd amination strong base array 3	2 sets of 16 reagent combinations in separated vials; 8 Catalysts and 2 bases. 32 reaction vials total
HCK1004-01-011	Pd amination strong base array 4	2 sets of 24 reagent combinations in separated vials; 8 Catalysts and 3 bases. 48 reaction vials total
HCK1004-01-012	Pd amination strong base array 5	2 sets of 16 reagent combinations in separated vials; 8 Catalysts and 2 bases. 32 reaction vials total



Legal information

Catalog number	Kit	Description
HCK1004-01-013	Pd amination strong base array 6	2 sets of 24 reagent combinations in separated vials; 8 Catalysts and 3 bases. 48 reaction vials total
HCK1004-01-014	Pd amination strong base array 7	2 sets of 16 reagent combinations in separated vials; 8 Catalysts and 2 bases. 32 reaction vials total
HCK1004-01-015	Pd amination strong and weak base	2 sets of 16 reagent combinations in separated vial for strong base and premixed for weak base; 8 Catalysts and 2 bases 32 reaction vials total
HCK1005-01-002	Carbodiimide coupling reagent kit	2 sets of 4 reagents. 8 reaction vials total
HCK1005-01-004	Aminium coupling reagent kit 2	2 sets of 6 reagents. 12 reaction vials total
HCK1005-01-006	Phosphonium coupling reagent kit 2	2 sets of 6 reagents. 12 reaction vials total
HCK1005-01-007	Amide coupling first choice array kit	2 sets of 6 reagents. 12 reaction vials total
HCK1006-01-001	Starter Kit	This kit contains 1 reaction block (24x 2ml vial, 32x 0.3ml vial, 4x 2Dram vial), 1 decapper for 8 mm crimped vial and 1 syringe Hamilton 81000.
HCK1006-01-002	Reaction block	1 reaction block (24x 2ml vial, 32x 0.3ml vial, 4x 2Dram vial)
HCK1006-01-003	Reaction block 96 vials	1 reaction block (96x 0.3ml vial)
HCK1006-01-012	Micro stir bar 2 X 2mm	50 Stir bars
HCK1006-01-013	6 mm vials 0.3 ml	100 vials
HCK1006-01-014	Crimp caps for 6 mm vial	100 crimp caps
HCK1006-01-015	Micro stir bar 7 X 2mm	50 Stir bars
HCK1006-01-032	Reaction block 2 ml vial	1 reaction block (48x 2 ml vial)
HCK1007-01-001	Alkoxylation & Acetoxylation Kit	8 sets of 3 reaction conditions. 10 mol% PdOAc ₂ , PhIOAc ₂ with 2 different salts with 4 different solvents. 24 reaction vials total
HCK1007-01-002	Alkoxylation & Acetoxylation Opti. Kit	2 set of 12 reaction conditions. 10 mol% PdOAc ₂ , 1 or 2 equivalents of PhIOAc ₂ with 5 different salts. 24 reaction vials total
HCK1008-01-001	Fluorination kit	Kit with PdOAc ₂ with either AgF, SelectFluor, NFSI or TMPyF with or without PhIOPiv as oxidant 24 reaction vials totals
HCK1009-01-001	Photomethylation kit	2 sets of photomethylation reaction conditions with 2 iridium catalysts, AcOOtBu and 4 different solvent systems 16 reaction vials total
HCK1009-01-002	Ir/Ni base and solvent screen kit 1	2 sets of reaction conditions with iridium catalyst, Ni/dtbbpy and 8 bases. 16 reaction vials total
HCK1009-01-003	Ir/Ni screen base and ligand kit 2	2 sets of reaction conditions with iridium catalyst, 4 Ni ligands and 4 bases. 32 reaction vials total
HCK1009-01-004	Ir/Ni screen base and ligand kit 3	2 sets of reaction conditions with iridium catalyst, 4 Ni ligands, and 8 bases. 32 reaction vials total
HCK1009-01-005	Ir/Ni screen base and Ir cat kit 4	2 sets of reaction conditions with 6 iridium catalysts, Ni dtbbpy, and 3 bases. 36 reaction vials total
HCK1009-01-006	Ir/Ni base and solvent screen kit (C-O coupling)	2 sets of reaction conditions with iridium catalyst Ir(dF-CF ₃ -ppy) ₂ (dtbbpy)PF ₆ , Ni/dtbbpy, Quinuclidine in 8 conditions with Cs ₂ CO ₃ , K ₃ PO ₄ , K ₂ CO ₃ (with 3 concentrations of Ni), DABCO, just

Catalog number	Kit	Description
HCK1009-01-007	Ir/Ni HAT screening kit	3 sets of reaction conditions with iridium catalysts Ir(dF-CF ₃ -ppy) ₂ (dtbbpy)PF ₆ and Ir(ppy) ₂ (dtbbpy) ₂ PF ₆ , NiBr ₂ *3H ₂ O, two ligands 4,7-dOMe-phen and 4,4'-dOMe-bpy and two bases Quinuclidine and 3-Acetoxy-quinuclidine. 15 reaction vials total.
HCK1011-01-001	Ullmann array kit	2 sets of Ullmann reaction conditions with CuI, 5 different ligands and 3 bases. 36 reaction vials total
HCK1013-01-001	Sulfinate Alkylation Diversification Kit	This kit allows to produce analogues of the lead compound using 6 different sulfinate alkylation reagents. Each vial contains 100 µmol of sulfinate alkylation reagent and a stirring bar to react with 50µmol of substrate.
HCK1013-01-002	Sulfinate Alkylation Screen Kit	This kit allows to screen 6 different sulfinate alkylation reagents. Each vial contains 10µmol of sulfinate alkylation reagent and a stirring bar to react with 5µmol of substrate.
HCK1016-01-001	Photo-catalytic Alkylation Diversification Kit	Photo-catalytic alkylation production kit using 8 different BF3K reagents in 50µmol scale reaction condition.
HCK1016-01-002	Photo-catalytic Alkylation Screen Kit	Photo-catalytic alkylation screen kit using 4 photocatalysts and 8 different alkylation reagents in 5µmol scale reaction condition.

HOW TO REQUEST MORE INFORMATION, A QUOTATION OR TO PLACE AN ORDER

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