

STREM CATALOG

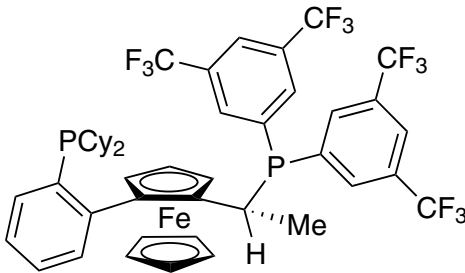
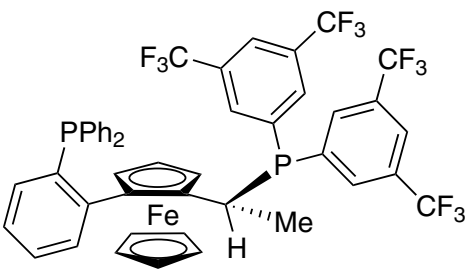
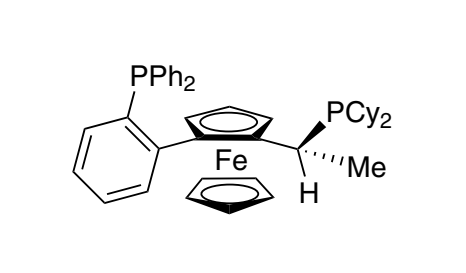
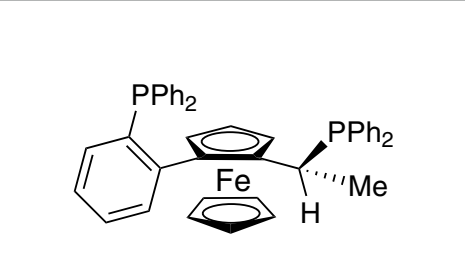
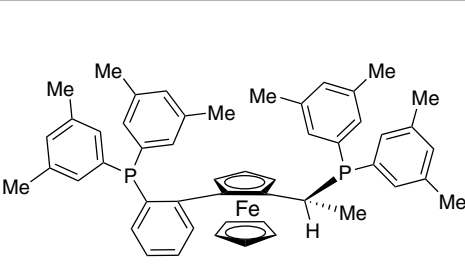
Part of Ascensus Specialties



Solvias Walphos Ligand Kit

For asymmetric catalytic hydrogenations and other transformations. Components also available for individual sale.

Kit# **96-3651** contains the following:

 26-1120	 26-1300	 26-1310
 26-1315	 26-1555	

Sold in collaboration with Solvias for research purposes only.

26-1130 (R)-(+)-1-[(R)-2-[2'-Bis(3,5-dimethyl-4-methoxyphenyl)phosphino]phenyl]ferrocenyl]ethylbis(di-3,5-trifluoromethylphenyl) phosphine, min. 97% (494227-30-4)

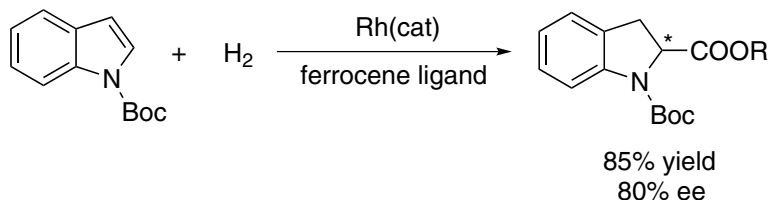
100mg

C₅₂H₄₄F₁₂FeO₂P₂; FW: 1046.68; orange powdr.

Note: Sold in collaboration with Solvias for research purposes only. Solvias Walphos Ligand Kit component.

Technical Note:

1. Ligand for Rh-catalyzed hydrogenation of vinylboronic esters.



Tech. Note (2)
Ref. (2)

References:

1. *Tetrahedron Asymm.*, **2010**, 21, 2010.

26-1120 (R)-(+)-1-[(R)-2-(2'-Dicyclohexylphosphinophenyl)ferrocenyl]ethylbis(3,5-trifluoromethylphenyl) phosphine, min. 97% (821009-34-1)

100mg

500mg

C₄₆H₄₄F₁₂FeP₂; FW: 942.62; orange powdr.

(store cold)

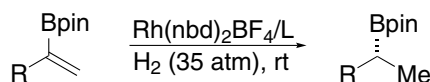
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2g

10g

Technical Note:

1. Ligand for Rh-catalyzed hydrogenation of vinylboronic esters.



Tech. Note (1)
Ref. (1)

References:

1. *Org. Lett.*, **2006**, 8, 2413.

26-1300 (R)-(-)-1-[(R)-2-(2'-Di(phenyl)phosphino]phenyl]ferrocenyl]ethylbis(di-3,5-trifluoromethylphenyl) phosphine, min. 97% (565184-33-0)

100mg

500mg

C₄₆H₃₂F₁₂FeP₂; FW: 930.52; orange powdr.

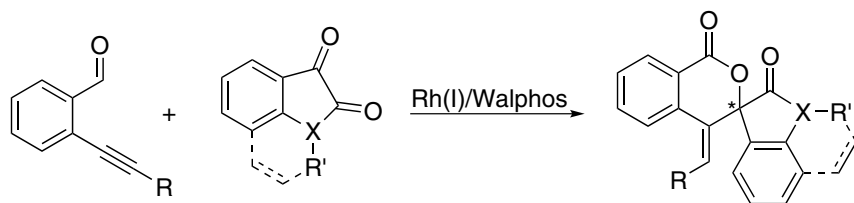
Note: Sold in collaboration with Solvias for research purposes only. Solvias Walphos Ligand Kit component.

2g

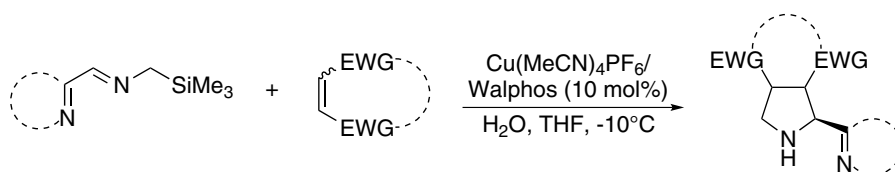
10g

Technical Notes:

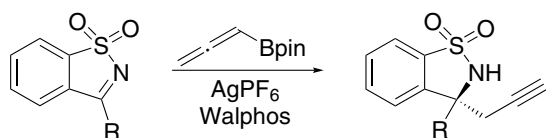
1. Enantioselective Pd-catalyzed hydrogenation of enesulfonamides.
2. A New Strategy for the Synthesis of Chiral β-Alkynyl Esters via sequential palladium and copper catalysis.
3. Enantioselective preparation and chemoselective cross-coupling of 1,1-diboron compounds.
4. Formation of isoxazolidines by enantioselective copper-catalyzed annulation of 2-nitrosopyridine with allylstannanes.
5. Ligand for the Enantioselective Rh(I)-Catalyzed 1,2-Addition of Arylboronic Acids to Cyclic Ketimines.
6. Asymmetric synthesis of borylalkanes via copper-catalyzed enantioselective hydroallylation.
7. Cu/Pd synergistic dual catalysis: Asymmetric α-allylation of an α-CF₃ amide.
8. Copper-Catalyzed asymmetric borylallylation of vinyl arenes.
9. Stereodivergent allylation of azaaryl acetamides and acetates by synergistic iridium and copper catalysis.



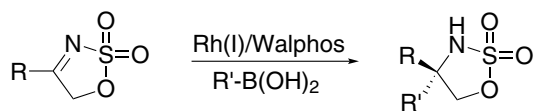
Tech. Note (1)
Ref. (1)



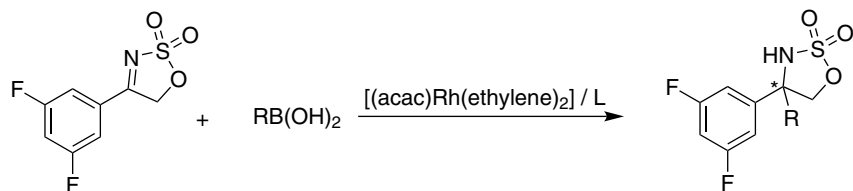
Tech. Note (2)
Ref. (2)



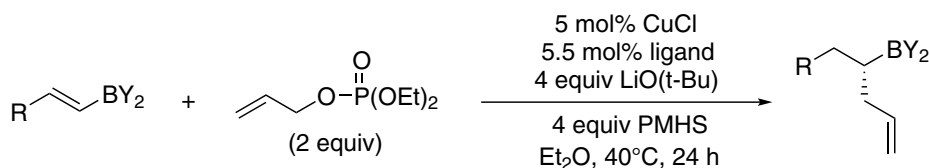
Tech. Note (3)
Ref. (3)



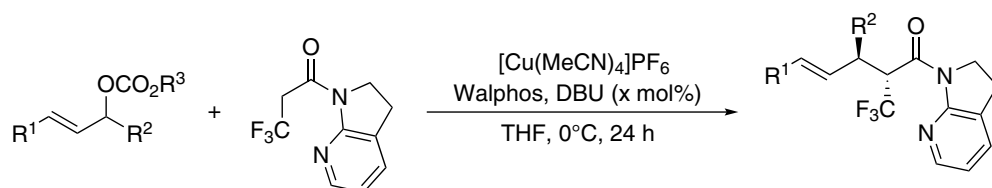
Tech. Note (4)
Ref. (4)



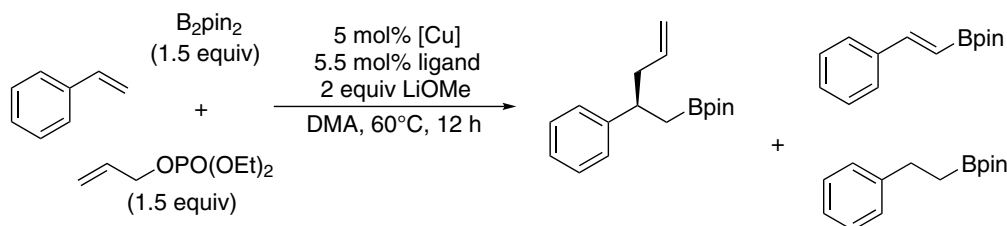
Tech. Note (5)
Ref. (5)



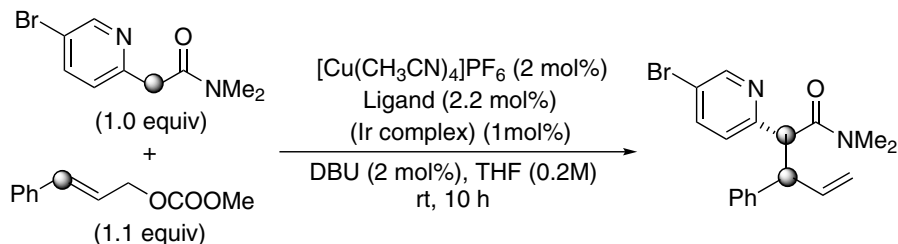
Tech. Note (6)
Ref. (6)



Tech. Note (7)
Ref. (7)



Tech. Note (8)
Ref. (8)



Tech. Note (9)
Ref. (9)

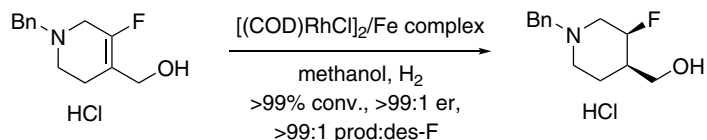
References:

1. *Chem. Commun.*, **2011**, 47, 5052.
2. *J. Am. Chem. Soc.*, **2011**, 133, 8502.
3. *Nat. Chem.*, **2011**, 3, 894.
4. *Angew. Chem. Int. Ed.*, **2011**, 50, 11257.
5. *Org. Lett.* **2015**, 17, 5520–5523.
6. *J. Am. Chem. Soc.*, **2016**, 138, 15146.
7. *Angew. Chem. Int. Ed.*, **2017**, 56, 5551.
8. *Org. Lett.*, **2017**, 19, 6144.
9. *J. Am. Chem. Soc.*, **2018**, 140, 1239.

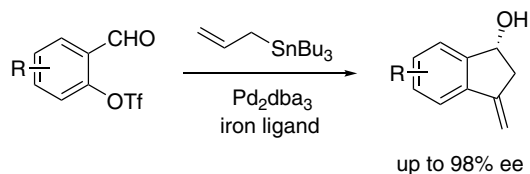
26-1310	(R)-(-)-1-[(R)-2-(2'-Di<h>phenylphosphino<h>phenyl)ferrocenyl]ethylidicyclohexyl<h>phosphine,	100mg
	min. 97% (565184-29-4)	500mg
	C ₄₂ H ₄₈ FeP ₂ ; FW: 670.62; orange powdr.	2g
	Note: Sold in collaboration with Solvias for research purposes only. Solvias Walphos Ligand Kit component.	10g

Technical Notes:

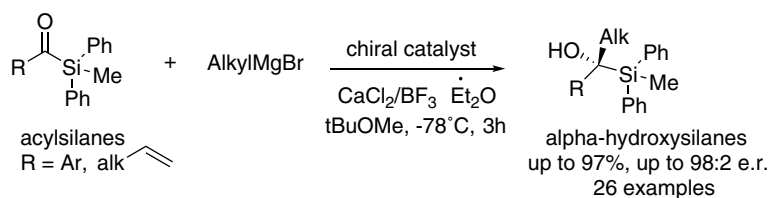
1. Enantioselective synthesis of chiral fluoropiperidine via asymmetric hydrogenation of a vinyl fluoride.
2. Palladium/ClickFerrophos – Catalyzed asymmetric domino allylstannylation-Heck reaction of o-formylaryl triflate.
3. Catalytic asymmetric alkylation of acylsilanes.
4. Ligand for the Rh-Catalyzed Enantioselective Silylation of Arene C–H Bonds.
5. Ligand for the Direct Catalytic Asymmetric Mannich-Type Reaction of α-OBn 7-Azaindoline Amides.



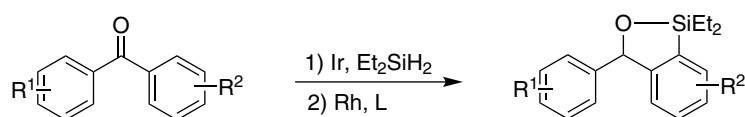
Tech. Note (1)
Ref. (1)



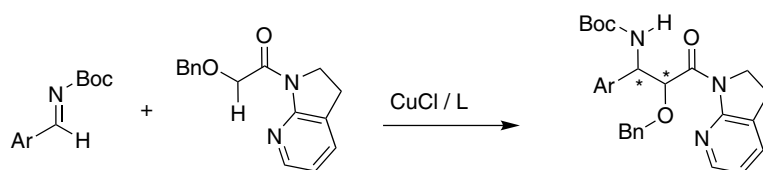
Tech. Note (2)
Ref. (2)



Tech. Note (3)
Ref. (3)



Tech. Note (4)
Ref. (4)



Tech. Note (5)
Ref. (5)

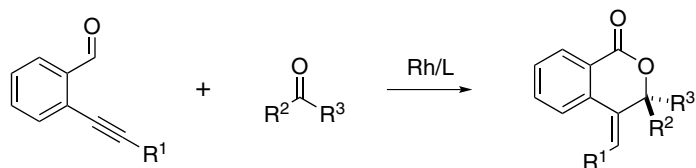
References:

1. *Tetrahedron*, **2009**, 65, 8987.
2. *J. Org. Chem.*, **2014**, 79, 7905.
3. *Angew. Chem. Int. Ed.*, **2015**, 54, 3038.
4. *J. Am. Chem. Soc.* **2015**, 137, 6742–6745.
5. *Org. Lett.* **2018**, 20, 526–529.

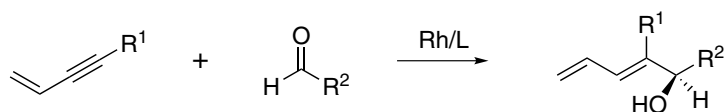
26-1315	(R)-(+)-1-[(R)-2-(2'-Di<h>phenylphosphinophenyl)ferrocenyl]ethylidi<h>phenylphosphine, min. 97%	100mg
	(565184-32-9)	500mg
	C ₄₂ H ₃₆ FeP ₂ ; FW: 658.53; orange powdr.	2g
	Note: Sold in collaboration with Solvias for research purposes only. Solvias Walphos Ligand Kit component.	10g

Technical Notes:

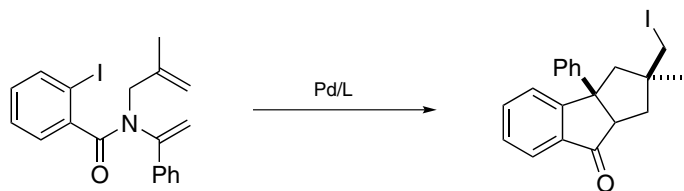
1. Ligand for Rh and Ru-catalyzed hydrogenation of alkenes and ketones.
2. Rh-catalyzed intermolecular [4+2].
3. Enantioselective reductive coupling of 1,3-enynes to heterocyclic aromatic aldehydes and ketones.
4. Pd-catalyzed enantioselective carbonylation.



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Tech. Note (3)
Ref. (3)



Tech. Note (4)
Ref. (4)

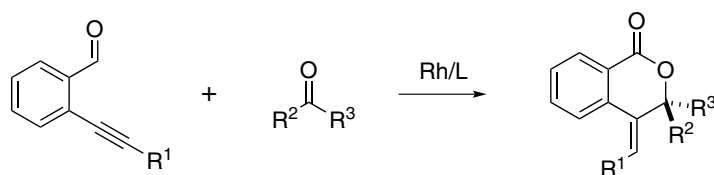
References:

1. (a) *Adv. Synth. Catal.*, **2003**, 345, 160, b, *Org. Lett.*, 2006, 8, 2413
2. *Angew. Chem.*, **2008**, 120, 5904
3. *J. Am. Chem. Soc.*, **2006**, 128, 16448
4. *J. Am. Chem. Soc.*, **2011**, 133, 14916

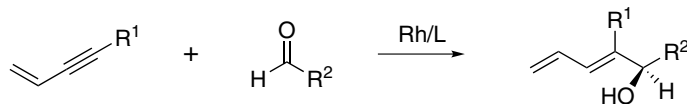
26-1555	(R)-(+)-1-[(R)-2-(2'-Di-3,5-xylylphosphinophenyl)ferrocenyl]ethyl<math>\langle h \rangle</math>-di-3,5-xylylphosphine, min. 97%	100mg
	(894771-28-9)	500mg
	C ₅₀ H ₅₂ FeP ₂ ; FW: 770.74; orange-red solid	2g
	Note: Sold in collaboration with Solvias for research purposes only. Solvias Walphos Ligand Kit component.	10g

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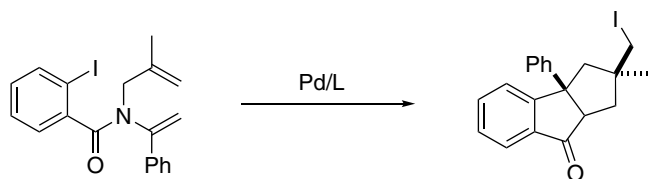
1. Ligand for Rh and Ru-catalyzed hydrogenation of alkenes and ketones.
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References:

1. (a) *Adv. Synth. Catal.*, **2003**, 345, 160, (b) *Org. Lett.*, **2006**, 8, 2413
2. *Angew. Chem.*, **2008**, 120, 5904
3. *J. Am. Chem. Soc.*, **2006**, 128, 16448
4. *J. Am. Chem. Soc.*, **2011**, 133, 14916





Headquartered in Bellevue, WA, **Ascensus Specialties** is the global leader in catalysts, ligands, building blocks, and specialty reagents. Our 60+ years of synthetic knowhow, allows us to bring additional value to our clients through our custom synthesis and cGMP services. From world-class production plants in Elma, WA, Evans City, PA, Newburyport, MA, and Cambridge, UK, Ascensus has a global reach that ensures our clients can consistently manufacture their products to the highest standards.

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