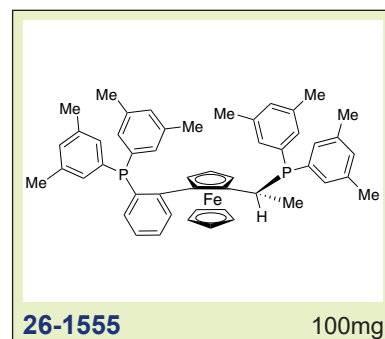
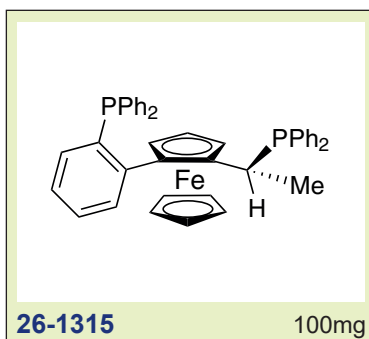
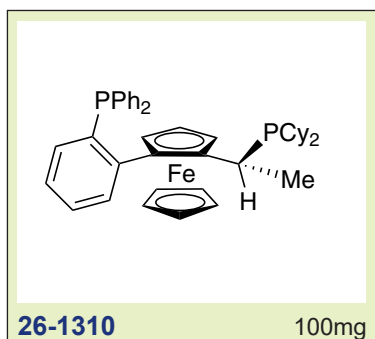
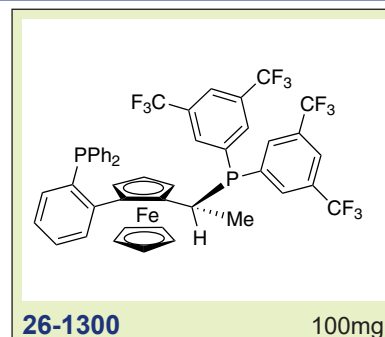
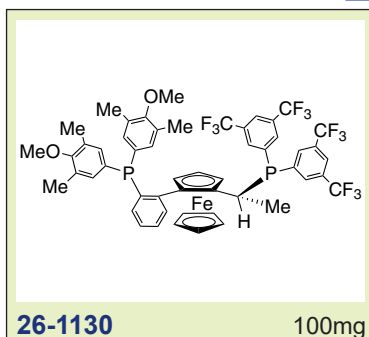
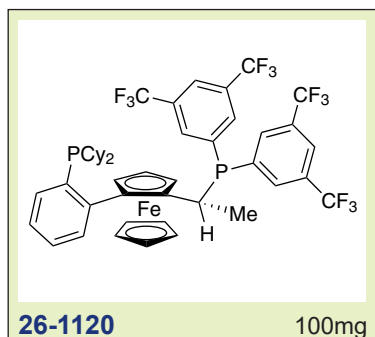
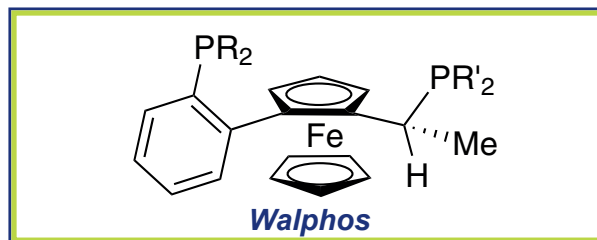


Sold in collaboration with Solvias for research purposes only.

96-3651 Solvias Walphos Ligand Kit

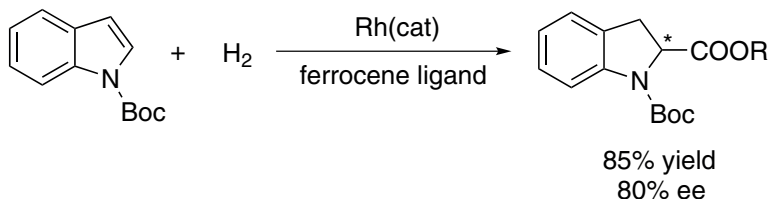
For asymmetric catalytic hydrogenations and other transformations.
 Components also available for individual sale.
 Contains the following:



26-1130 (R)-(+)-1-[(R)-2-[2'-Bis(3,5-dimethyl-4-methoxyphenyl)phosphinophenyl]ferrocenyl] ethylbis(di-3,5-trifluoromethylphenyl) phosphine, min. 97% (494227-30-4) 100mg
 $C_{52}H_{44}F_{12}FeO_2P_2$; FW: 1046.68; orange powd.
 Note: Solvias Walphos Ligand Kit component.

Technical Note:

- Ligand for Rh-catalyzed hydrogenation of vinylboronic esters



Tech. Note (2)
Ref. (2)

References:

- Tetrahedron Asymm.*, **2010**, 21, 2010.

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26-1120 (R)-(+)-1-[(R)-2-(2'-Dicyclohexylphosphinophenyl)ferrocenyl]ethylbis(3,5-trifluoromethylphenyl)**phosphine, min. 97%** (821009-34-1)C₄₆H₄₄F₁₂FeP₂; FW: 942.62; orange powdr.

(store cold)

Note: Solvias Walphos Ligand Kit component.

100mg

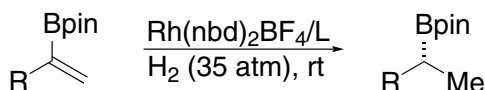
500mg

2g

10g

Technical Note:

- Ligand for Rh-catalyzed hydrogenation of vinylboronic esters.


Tech. Note (1)
Ref. (1)

References:

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

26-1300 (R)-(-)-1-[(R)-2-(2'-Diphenylphosphinophenyl)ferrocenyl]ethylbis(di-3,5-trifluoromethylphenyl)**phosphine, min. 97%** (565184-33-0)C₄₆H₃₂F₁₂FeP₂; FW: 930.52; orange powdr.

Note: Solvias Walphos Ligand Kit component.

100mg

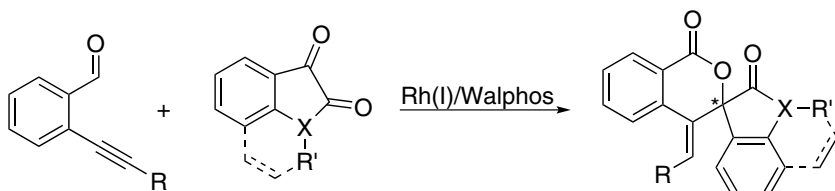
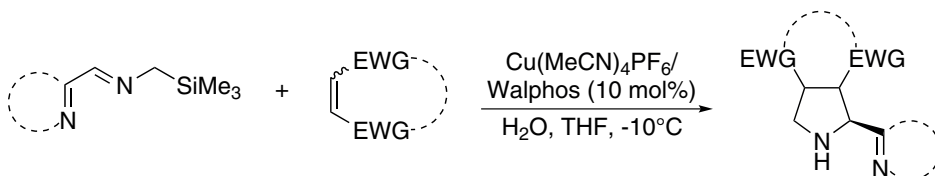
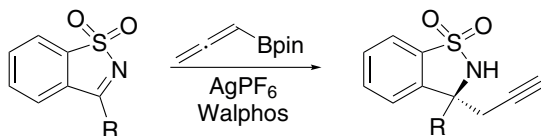
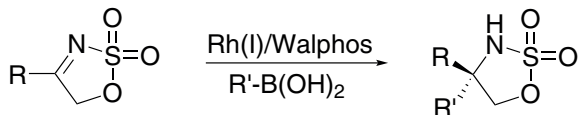
500mg

2g

10g

Technical Notes:

- Ligand for Rhodium-catalyzed enantioselective synthesis of spirocyclic benzopyranones by intermolecular[4+2]annulation.
- Ligand for Copper-catalyzed enantioselective synthesis of α -heteroarylpyrrolidines by 1,3-cycloaddition of α -silylimines.
- Ligand for Silver-catalyzed enantioselective propargylation reactions of N-sulfonylketimines.
- Ligand for Rhodium-catalyzed enantioselective addition of arylboronic acids to cyclic ketimines.


Tech. Note (1)
Ref. (1)

Tech. Note (2)
Ref. (2)

Tech. Note (3)
Ref. (3)

Tech. Note (4)
Ref. (4)

References:

- Angew. Chem., Int. Ed.* **2008**, *47*, 5820.
- Org. Lett.*, **2014**, *16*, 2228.
- Org. Lett.*, **2015**, *17*, 5340.
- Org. Lett.*, **2015**, *17*, 5520.

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26-1310 (R)-(-)-1-[(R)-2-(2'-Diphenylphosphinophenyl)ferrocenyl]ethylidicyclohexylphosphine, min. 97%

(565184-29-4)

C₄₂H₄₈FeP₂; FW: 670.62; orange powdr.

Note: Solvias Walphos Ligand Kit component.

100mg

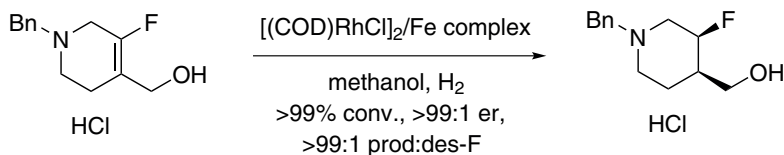
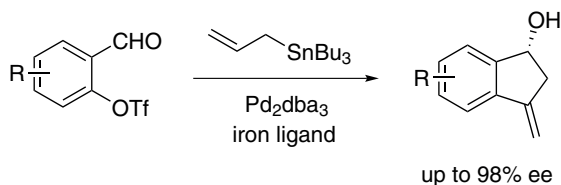
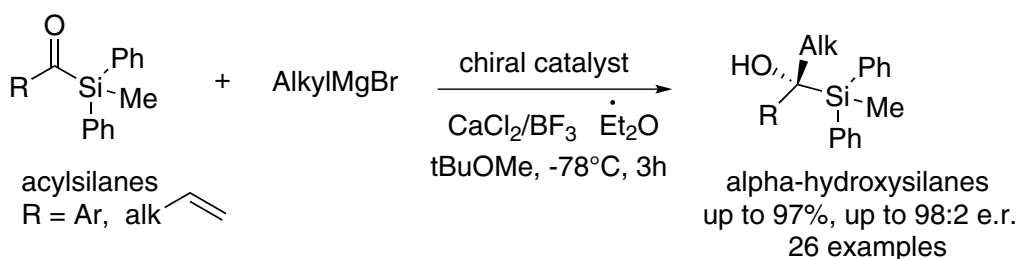
500mg

2g

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.

Tech. Note (1)
Ref. (1)Tech. Note (2)
Ref. (2)Tech. Note (3)
Ref. (3)

References:

1. *Tetrahedron*, **2009**, 65, 8987
2. *J. Org. Chem.*, **2014**, 79, 7905.
3. *Angew. Chem. Int. Ed.*, **2015**, 54, 3038.

26-1315 (R)-(+)-1-[(R)-2-(2'-Diphenylphosphinophenyl)ferrocenyl]ethylidiphenylphosphine, min. 97%

(565184-32-9)

C₄₂H₃₆FeP₂; FW: 658.53; orange powdr.

Note: Solvias Walphos Ligand Kit component.

100mg

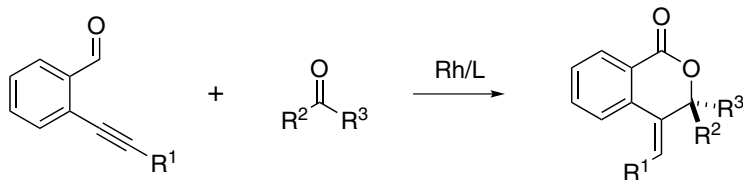
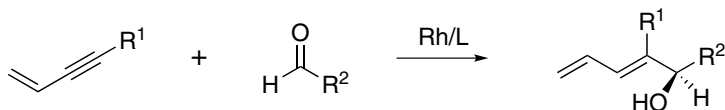
500mg

2g

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.

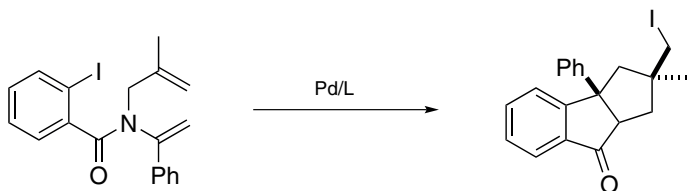
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Tech. Note (4)
Ref. (4)

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

26-1320	(R)-(+)-1-[(R)-2-(2'-Diphenylphosphinophenyl)ferrocenyl]ethyldi(3,5-xylyl)phosphine, min. 97% (894771-25-6) C ₄₆ H ₄₄ FeP ₂ ; FW: 714.63; orange powder. (store cold)	100mg 500mg 2g 10g
Note: Solvias Walphos Ligand Kit component.		

Technical Notes:

1. See 26-1315.

26-1555	(R)-(+)-1-[(R)-2-(2'-Di-3,5-xylylphosphinophenyl)ferrocenyl]ethyldi-3,5-xylylphosphine, min. 97% (894771-28-9) C ₅₀ H ₅₂ FeP ₂ ; FW: 770.74; orange-red solid Note: Solvias Walphos Ligand Kit component.	100mg 500mg 2g 10g
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Technical Notes:

1. See 26-1315.

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