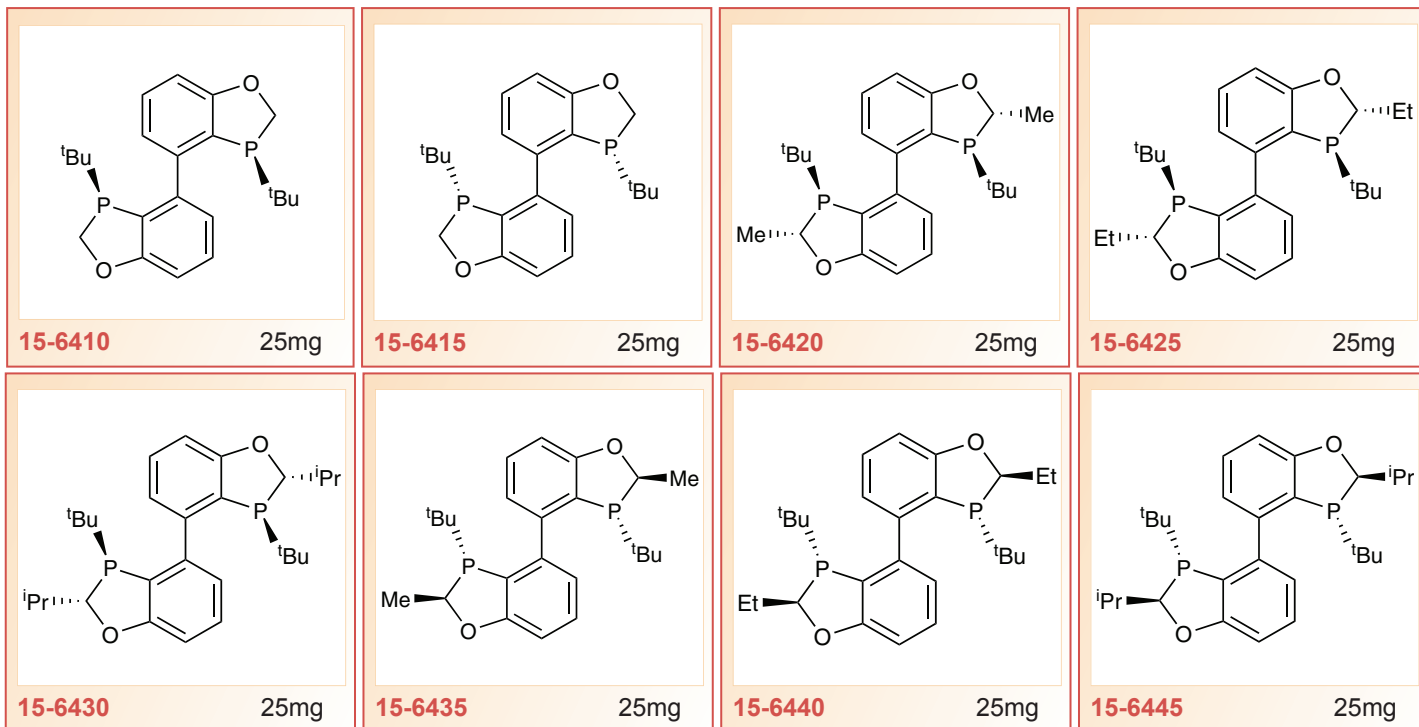


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96-0660 BABIBOP Ligand Kit

Components also available for individual sale.

Contains the following:



15-6410	(3S,3'S)-3,3'-Di-tert-butyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (3S,3'S)-BABIBOP (2207601-04-3)	25mg	See page 3
15-6415	(3R,3'R)-3,3'-Di-tert-butyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (3R,3'R)-BABIBOP (2214207-73-3)	25mg	See page 3
15-6420	(2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-dimethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (2S,2'S,3S,3'S)-DI-Me-BABIBOP (2207601-10-1)	25mg	See page 3
15-6425	(2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-diethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (2S,2'S,3S,3'S)-DI-Et-BABIBOP (N/A)	25mg	See page 2
15-6430	(2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-diisopropyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (2S,2'S,3S,3'S)-DI-iPr-BABIBOP (2207601-12-3)	25mg	See page 2
15-6435	(2R,2'R,3R,3'R)-3,3'-Di-tert-butyl-2,2'-dimethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (2R,2'R,3R,3'R)-DI-Me-BABIBOP (2214207-74-4)	25mg	See page 3
15-6440	(2R,2'R,3R,3'R)-3,3'-Di-tert-butyl-2,2'-diethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (2R,2'R,3R,3'R)-DI-Et-BABIBOP (N/A)	25mg	See page 2
15-6445	(2R,2'R,3R,3'R)-3,3'-Di-tert-butyl-2,2'-diisopropyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) (2R,2'R,3R,3'R)-DI-iPr-BABIBOP (2214207-75-5)	25mg	See page 2

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15-6440 (2R,2'R,3R,3'R)-3,3'-Di-tert-butyl-2,2'-diethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (2R,2'R,3R,3'R)-DI-Et-BABIBOP (N/A) 100mg
 $C_{26}H_{36}O_2P_2$; FW: 442.51; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

15-6425 (2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-diethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (2S,2'S,3S,3'S)-DI-Et-BABIBOP (N/A) 100mg
 $C_{26}H_{36}O_2P_2$; FW: 442.51; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

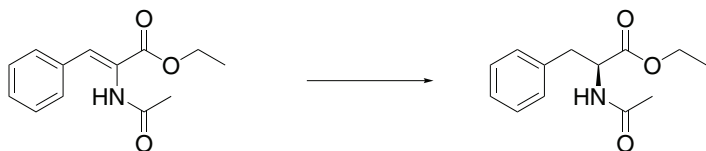
15-6430 (2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-diisopropyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (2S,2'S,3S,3'S)-DI-iPr-BABIBOP (2207601-12-3) 100mg
 $C_{28}H_{40}O_2P_2$; FW: 470.57; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

Technical Notes:

1. Ligand used for copper-catalyzed asymmetric hydrogenation of 2-substituted ketones.
2. Ligand used for rhodium catalyst for asymmetric hydrogenation enamides.



Tech. Note (1)
Ref. (1)



Tech. Note (2)
Ref. (2)

References:

1. *Chem. Sci.*, **2018**, 9, 4505-4510.
2. *Org. Lett.*, **2018**, 20, 1725-1729.

15-6445 (2R,2'R,3R,3'R)-3,3'-Di-tert-butyl-2,2'-diisopropyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (2R,2'R,3R,3'R)-DI-iPr-BABIBOP (2214207-75-5) 100mg
 $C_{28}H_{40}O_2P_2$; FW: 470.57; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

Technical Note:

1. Ligand used in palladium-catalyzed asymmetric hydrogenation.



Tech. Note (1)
Ref. (1)

References:

1. *Chi. J. Chem.*, **2018**, 36, 153-156.

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15-6435 (2R,2'R,3R,3'R)-3,3'-Di-tert-butyl-2,2'-dimethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (2R,2'R,3R,3'R)-DI-Me-BABIBOP (2214207-74-4) 100mg
 $C_{24}H_{32}O_2P_2$; FW: 414.46; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

Technical Note:

1. See 15-6445 (page 2)

15-6420 (2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-dimethyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (2S,2'S,3S,3'S)-DI-Me-BABIBOP (2207601-10-1) 100mg
 $C_{24}H_{32}O_2P_2$; FW: 414.46; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

Technical Notes:

1. See 15-6430 (page 2)

15-6415 (3R,3'R)-3,3'-Di-tert-butyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (3R,3'R)-BABIBOP (2214207-73-3) 100mg
 $C_{22}H_{28}O_2P_2$; FW: 386.41; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

Technical Note:

1. See 15-6445 (page 2)

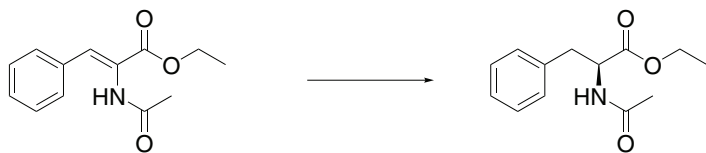
15-6410 (3S,3'S)-3,3'-Di-tert-butyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg
 (3S,3'S)-BABIBOP (2207601-04-3) 100mg
 $C_{22}H_{28}O_2P_2$; FW: 386.41; white to off-white solid
air sensitive, (store cold)
 Note: Sold under license from Zejun for research purposes only.
 Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

Technical Notes:

1. Ligand used in copper-catalyzed asymmetric hydrogenation of 2-substituted ketones
2. Ligand used in rhodium catalyst for asymmetric hydrogenation enamides.
3. Ligand used in palladium-catalyzed asymmetric hydrogenation



Tech. Note (1)
Ref. (1)



Tech. Note (2)
Ref. (2)



Tech. Note (3)
Ref. (3)

References:

1. *Chem. Sci.*, **2018**, 9, 4505-4510.
2. *Org. Lett.*, **2018**, 20, 1725-1729.
3. *Chi. J. Chem.*, **2018**, 36, 153-156.

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