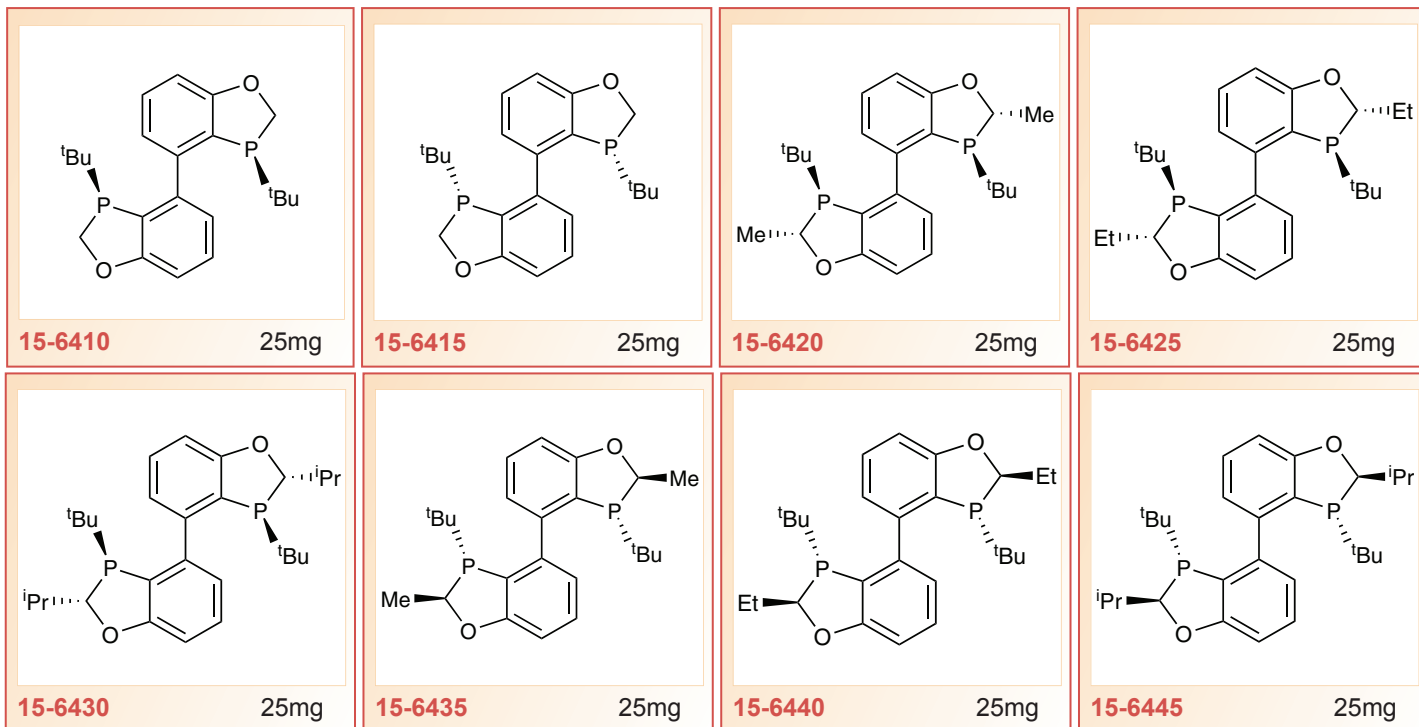


Sold under license from Zejun for research purposes only. Patents: CN 107827929 A 20180323; US 20180155375 A1 20180607.

## 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

Visit [www.strem.com](http://www.strem.com) for new product information and a searchable catalog.

**Strem Chemicals, Inc.**  
7 Mulliken Way  
Newburyport, MA 01950  
U.S.A  
Tel: 978.499.1600  
Fax: 978.465.3104  
Email: [info@strem.com](mailto:info@strem.com)

**Strem Chemicals, Inc.**  
15, rue de l'Atome  
Zone Industrielle  
67800 BISCHHEIM France  
Tel: (33) 03 88 62 52 60  
Fax: (33) 03 88 62 26 81  
Email: [info.europe@strem.com](mailto:info.europe@strem.com)

**Strem Chemicals, Inc.**  
Postfach 1215  
77672 KEHL  
Germany  
Tel: 0 78 51/ 7 58 79  
Email: [info.europe@strem.com](mailto:info.europe@strem.com)

**Strem Chemicals UK Ltd.**  
An Independent Distributor of Strem Chemicals Products  
Newton Hall, Town Street  
Newton, Cambridge  
England CB22 7ZE  
Tel: +44 (0)1223 873 028  
Fax: +44 (0)1223 870207  
Email: [enquiries@strem.co.uk](mailto:enquiries@strem.co.uk)

**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.

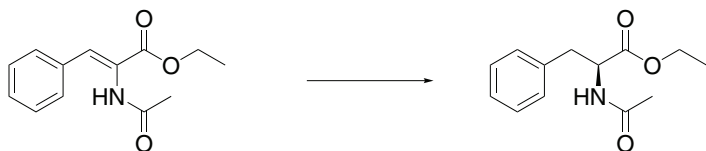
**15-6430** (2S,2'S,3S,3'S)-3,3'-Di-tert-butyl-2,2'-diisopropyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg  
 (2S,2'S,3S,3'S)-DI-iPr-BABIBOP (2207601-12-3) 100mg  
 $C_{28}H_{40}O_2P_2$ ; FW: 470.57; white to off-white solid  
*air sensitive, (store cold)*  
 Note: 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.

Visit [www.strem.com](http://www.strem.com) for new product information and a searchable catalog.

**Strem Chemicals, Inc.**  
 7 Mulliken Way  
 Newburyport, MA 01950  
 U.S.A  
 Tel: 978.499.1600  
 Fax: 978.465.3104  
 Email: info@strem.com

**Strem Chemicals, Inc.**  
 15, rue de l'Atome  
 Zone Industrielle  
 67800 BISCHHEIM France  
 Tel: (33) 03 88 62 52 60  
 Fax: (33) 03 88 62 26 81  
 Email: info.europe@strem.com

**Strem Chemicals, Inc.**  
 Postfach 1215  
 77672 KEHL  
 Germany  
 Tel: 0 78 51/ 7 58 79  
 Email: info.europe@strem.com

**Strem Chemicals UK Ltd.**  
 An Independent Distributor of Strem Chemicals Products  
 Newton Hall, Town Street  
 Newton, Cambridge  
 England CB22 7ZE  
 Tel: +44 (0)1223 873 028  
 Fax: +44 (0)1223 870207  
 Email: enquiries@strem.co.uk

**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)

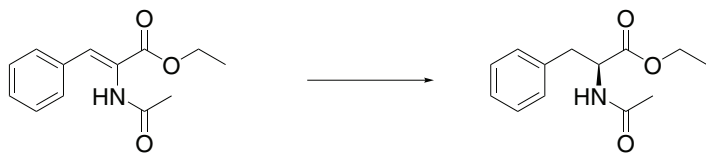
**15-6410** (3S,3'S)-3,3'-Di-tert-butyl-2,2',3,3'-tetrahydro-4,4'-bibenzo[d][1,3]oxaphosphole, min. 97% (99% ee) 25mg  
 (3S,3'S)-BABIBOP (2207601-04-3) 100mg  
 $C_{22}H_{28}O_2P_2$ ; FW: 386.41; white to off-white solid  
*air sensitive, (store cold)*  
 Note: Sold under license from Zejun for research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

Visit [www.strem.com](http://www.strem.com) for new product information and a searchable catalog.

**Strem Chemicals, Inc.**  
 7 Mulliken Way  
 Newburyport, MA 01950  
 U.S.A.  
 Tel: 978.499.1600  
 Fax: 978.465.3104  
 Email: [info@strem.com](mailto:info@strem.com)

**Strem Chemicals, Inc.**  
 15, rue de l'Atome  
 Zone Industrielle  
 67800 BISCHHEIM France  
 Tel: (33) 03 88 62 52 60  
 Fax: (33) 03 88 62 26 81  
 Email: [info.europe@strem.com](mailto:info.europe@strem.com)

**Strem Chemicals, Inc.**  
 Postfach 1215  
 77672 KEHL  
 Germany  
 Tel: 0 78 51/ 7 58 79  
 Email: [info.europe@strem.com](mailto:info.europe@strem.com)

**Strem Chemicals UK Ltd.**  
 An Independent Distributor of Strem Chemicals Products  
 Newton Hall, Town Street  
 Newton, Cambridge  
 England CB22 7ZE  
 Tel: +44 (0)1223 873 028  
 Fax: +44 (0)1223 870207  
 Email: [enquiries@strem.co.uk](mailto:enquiries@strem.co.uk)