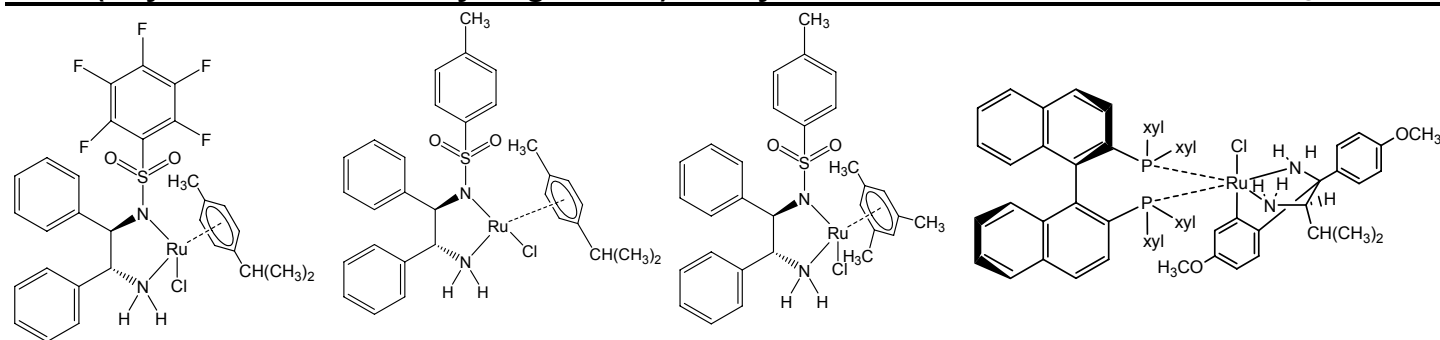


ATH (Asymmetric Transfer Hydrogenation) Catalyst Kit manufactured under license of Takasago patent.

44-0156

44-0148

44-0154

44-0217

96-6955 Takasago ATH (Asymmetric Transfer Hydrogenation) Catalyst Kit

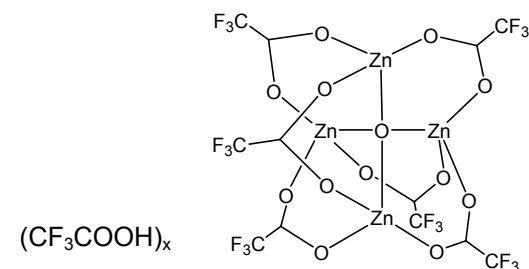
Kit contains 250mg unit of the 8 R- and S- items listed below

Individual items available for sale

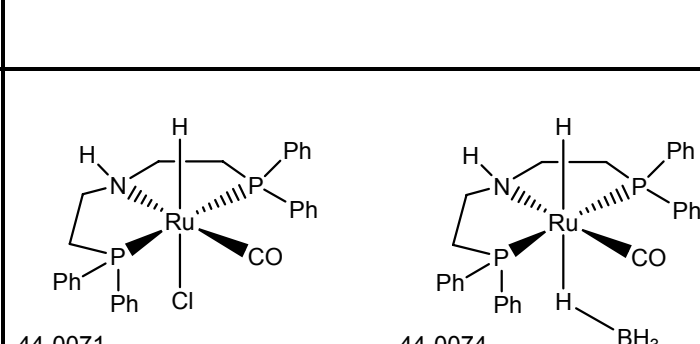
	R-	CAS#	S-	CAS#	Sizes		
RuCl ₂ (Fsdpen)(p-cymene)	44-0156	1026995-71-0	44-0157	1026995-72-1	250mg	1g	5g
RuCl ₂ (TsDPEN)(p-cymene)	44-0148	192139-92-7	44-0149	192139-90-5	250mg	1g	5g
RuCl ₂ (TsDPEN)(mesitylene)	44-0154	174813-82-2	44-0155	174813-81-1	250mg	1g	5g
RUCY TM	44-0217		44-0218	1312713-89-5	250mg	1g	5g

ZnTAC24TM

Zinc Catalyst for a variety of transformations
(e.g. Catalytic Acylation of Alcohols)

(CF₃COOH)_x

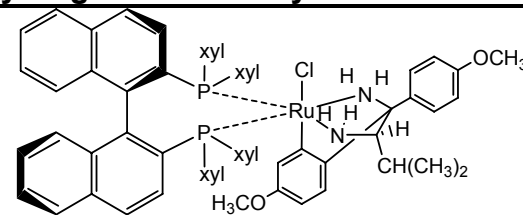
	CAS#	Sizes
ZnTAC24 TM	30-4050 1299489-47-6	5g 25g

Ru-MACHOTM**Ester Reduction Catalyst**

44-0071

44-0074

	CAS#	Sizes
Ru-MACHO TM	44-0071 1295649-40-9	250mg 1g 5g
Ru-MACHO TM -BH	44-0074 1295649-41-0	250mg 1g 5g

RUCYTM**Highly efficient Asymmetric Hydrogenation Catalyst**

44-0217

	R-	CAS#	S-	CAS#	Sizes		
RUCY TM -XylBINAP	44-0217		44-0218	1312713-89-5	250mg	1g	5g

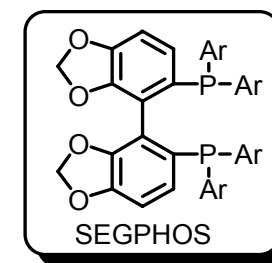
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7 Mulliken Way
Newburyport, MA 01950-4098
U.S.A.
Tel.: (978) 499-1600
Fax: (978) 465-3104
Email: info@strem.com

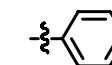
Strem Chemicals, Inc.
15, rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel.: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

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

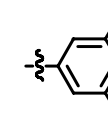
Strem Chemicals UK, Ltd.
41 Hills Road
Cambridge
England CB2 1NT
Tel.: 0845 643 7263
Fax: 0845 643 7362
Email: enquiries@strem.co.uk

STREM**TAKASAGO****SEGPHOS[®] CATALYST and LIGAND KITS** manufactured under license of Takasago patent.
For Asymmetric Hydrogenation and other catalytic applications.

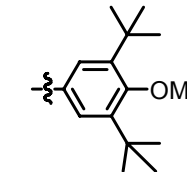
Ar:



SEGPHOS



DM-SEGPHOS



DTBM-SEGPHOS

96-6900 Takasago SEGPHOS[®] Ligand Kit

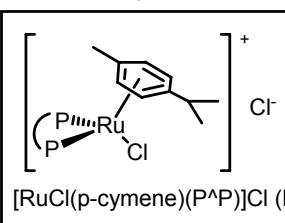
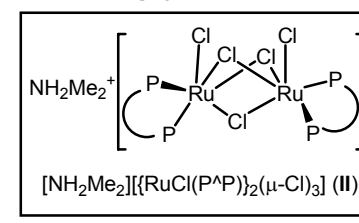
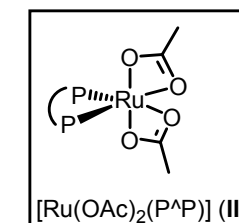
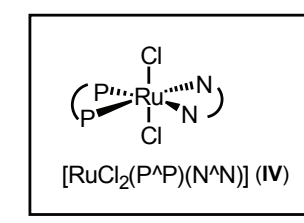
Kit contains 250mg unit of the 6 R- and S- items listed below

Individual items available for sale

	R-	CAS#	S-	CAS#	Sizes		
SEGPHOS [®]	15-0136	244261-66-3	15-0137	210169-54-3	250mg	1g	5g
DM-SEGPHOS [®]	15-0478	850253-53-1	15-0479	210169-57-6	250mg	1g	5g
DTBM-SEGPHOS [®]	15-0066	566940-03-2	15-0067	210169-40-7	250mg	1g	5g

96-6901 Takasago SEGPHOS[®] Ru Catalyst Kit

Metal Catalysts in the kit are the following type

[RuCl(p-cymene)(P^{*}P)]Cl (I)[NH₂Me₂][{RuCl(P^{*}P)}₂(μ-Cl)₃] (II)[Ru(OAc)₂(P^{*}P)] (III)[RuCl₂(P^{*}P)(N^{*}N)] (IV)

Kit contains 250mg unit of the 20 R- and S- items listed below

Individual items available for sale

Metal Catalyst = RuCl[(p-cymene)(P^{*}P)]Cl (I)

Ligand P [*] P =	R-	CAS#	S-	CAS#	Sizes		
SEGPHOS [®]	44-0096	944451-28-9	44-0097	944451-29-0	250mg	1g	5g
DM-SEGPHOS [®]	44-0098	944451-30-3	44-0099	944451-31-4	250mg	1g	5g
DTBM-SEGPHOS [®]	44-0102	944451-32-5	44-0103	944451-33-6	250mg	1g	5g

Metal Catalyst = [NH₂Me₂][{RuCl(P^{*}P)}₂(μ-Cl)₃] (II)

SEGPHOS [®]	44-0518	346457-41-8	44-0519	488809-34-3	250mg	1g	5g
DM-SEGPHOS [®]	44-0520	935449-46-0	44-0521	944451-14-3	250mg	1g	5g

Metal Catalyst = Ru(OAc)₂(P^{*}P) (III)

SEGPHOS [®]	44-0168	944450-48-0	44-0169	373650-12-5	250mg	1g	5g
DM-SEGPHOS [®]	44-0174	944450-49-1	44-0176	944450-50-4	250mg	1g	5g
DTBM-SEGPHOS [®]	44-0180	1025477-38-6	44-0181	1025476-84-9	250mg	1g	5g

Metal Catalyst = RuCl₂(P^{*}P)(N^{*}N) (IV)

RuCl ₂ [(dm-segphos [®])(daipen)]	44-0214	944450-43-5	44-0215	944450-44-6	250mg	1g	5g
RuCl ₂ [(dm-segphos [®])(dpen)]	44-0228	944450-45-7	44-0229	944450-46-8	250mg	1g	5g

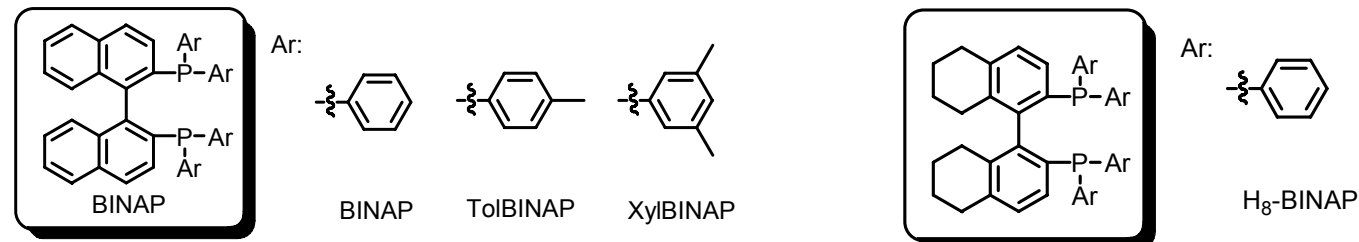
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Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950-4098
U.S.A.
Tel.: (978) 499-1600
Fax: (978) 465-3104
Email: info@strem.com

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

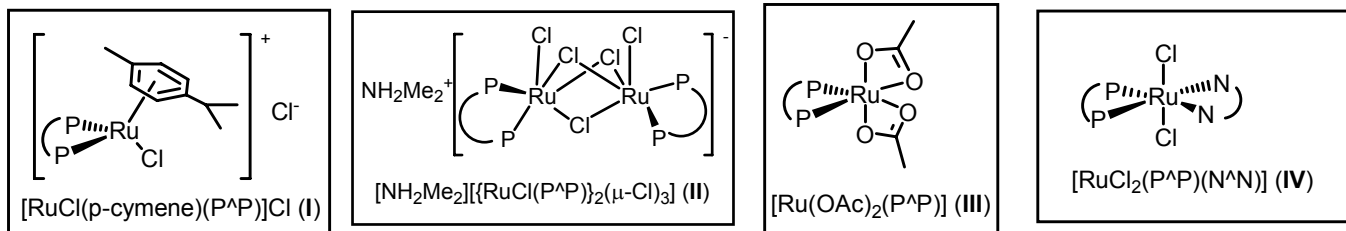
Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Telefon: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK, Ltd.
41 Hills Road
Cambridge
England CB2 1NT
Tel.: 0845 643 7263
Fax: 0845 643 7362
Email: enquiries@strem.co.uk

BINAP CATALYST and LIGAND KITS manufactured under license of Takasago Patent. For Asymmetric Hydrogenation and other catalytic applications.

96-6950 Takasago BINAP Ligand Kit

Kit contains smallest unit of the 6 R- and S- items listed below Individual items available for sale

Ligand P [^] P =	R-	CAS#	S-	CAS#	Sizes		
BINAP	15-0150	76189-55-4	15-0151	76189-56-5	250mg	1g	5g
TolBINAP	15-0152	99646-28-3	15-0153	100165-88-6	250mg	1g	5g
XylBINAP	15-0476	137219-86-4	15-0477	135139-00-3	250mg	1g	5g
Also Available (not in above kit)							
H ₈ -BINAP	15-2972	139139-86-9	15-2973	139139-93-8	50mg	250mg	

BINAP - Metal Catalyst Kits are of the following type:

96-6951 Takasago BINAP Ru Cymene Catalyst Kit

Kit contains smallest unit of the 6 R- and S- items listed below Individual items available for sale

Ligand P [^] P =	R-	CAS#	S-	CAS#	Sizes		
BINAP	44-0084	145926-28-9	44-0086	130004-33-0	250mg	1g	5g
TolBINAP	44-0088	131614-43-2	44-0089	228120-95-4	250mg	1g	5g
XylBINAP	44-0092	944451-24-5	44-0093	944451-25-6	250mg	1g	5g
Also Available (not in above kit)							
H ₈ -BINAP	44-0094	944451-26-7	44-0095	944451-27-8	50mg	250mg	

96-6952 Takasago BINAP Ru Dimer Catalyst Kit

Kit contains smallest unit of the 6 R- and S- items listed below Individual items available for sale

Ligand P [^] P =	R-	CAS#	S-	CAS#	Sizes		
BINAP	44-0510	199684-47-4	44-0511	199541-17-8	250mg	1g	5g
TolBINAP	44-0512	749935-02-2	44-0513	309735-86-2	250mg	1g	5g
XylBINAP	44-0514	944451-08-5	44-0515	944451-10-9	250mg	1g	5g
Also Available (not in above kit)							
H ₈ -BINAP	44-0516	204933-84-6	44-0517	944451-12-1	50mg	250mg	

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 7 Mulliken Way
 Newburyport, MA 01950-4098
 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
 Telefon: 0 78 51/ 7 58 79
 Email: info.europe@strem.com
Strem Chemicals UK, Ltd.
 41 Hills Road
 Cambridge
 England CB2 1NT
 Tel.: 0845 643 7263
 Fax: 0845 643 7362
 Email: enquiries@strem.co.uk
96-6953 Takasago BINAP Ru Acetate Catalyst Kit

Kit contains smallest unit of the 6 R- and S- items listed below

Individual items available for sale

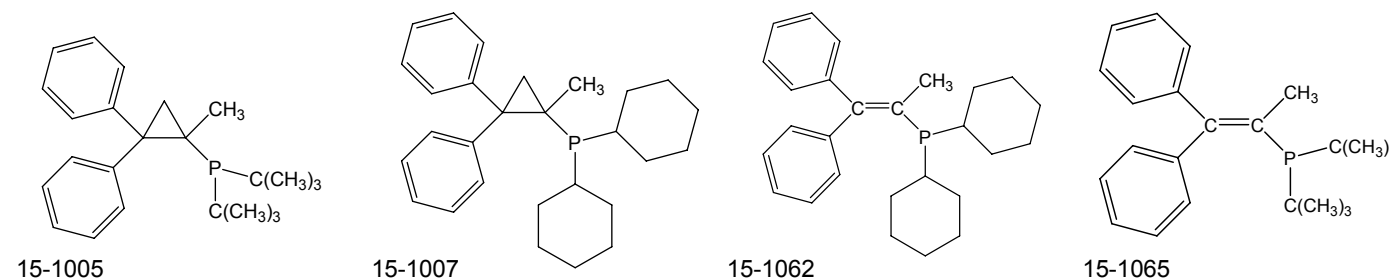
Ligand P [^] P =	R-	CAS#	S-	CAS#	Sizes		
BINAP	44-0152	325146-81-4	44-0153	261948-85-0	250mg	1g	5g
TolBINAP	44-0162	116128-29-1	44-0163	106681-15-6	250mg	1g	5g
XylBINAP	44-0164	374067-50-2	44-0165	374067-49-9	250mg	1g	5g
Also Available							
H ₈ -BINAP	44-0166	374067-51-3	44-0167	142962-95-6	50mg	250mg	

96-6954 Takasago BINAP Ru Diamine Catalyst Kit

Kit contains smallest unit of the 64 R- and S- items listed below

Individual items available for sale

Ru(P [^] P)(N [^] N)Cl ₂ (IV)	R-	CAS#	S-	CAS#	Sizes		
RuCl ₂ [(xylbinap)(daipen)]	44-0212	220114-32-9	44-0213	220114-01-2	250mg	1g	5g
RuCl ₂ [(xylbinap)(dpen)]	44-0226	220114-38-5	44-0224	220114-03-4	250mg	1g	5g
(R)-RUCY™-XylBINAP	44-0217		44-0218	1312713-89-5	250mg	1g	5g

BRIDP Ligands manufactured under license of Takasago patent.
For C-C and C-X Coupling.


Ligand	R-	CAS#	S-	CAS#	Sizes		
cBRIDP	15-1005	742103-27-1			250mg	1g	5g
Cy-cBRIDP	15-1007	1023330-38-2			250mg	1g	5g
Cy-vBRIDP	15-1062	384842-24-4			250mg	1g	5g
vBRIDP	15-1065	384842-25-5			250mg	1g	5g

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 7 Mulliken Way
 Newburyport, MA 01950-4098
 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
 Telefon: 0 78 51/ 7 58 79
 Email: info.europe@strem.com
Strem Chemicals UK, Ltd.
 41 Hills Road
 Cambridge
 England CB2 1NT
 Tel.: 0845 643 7263
 Fax: 0845 643 7362
 Email: enquiries@strem.co.uk