

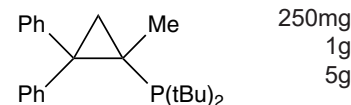
## BRIDP Ligands for C-C and C-X coupling

**Monophosphine Ligands for Pd-catalyzed Coupling Reaction** - The common characteristics of efficient ligands for cross-coupling reactions are the unique levels of electron-richness and steric hindrance. In order to achieve more efficiency and versatility in cross-coupling reactions, TAKASAGO has designed and developed a new family of phosphine ligands, BRIDPs.

<b>15-1005</b> <b>cBRIDP</b>	<b>15-1007</b> <b>Cy-cBRIDP</b>	<b>15-1062</b> <b>Cy-vBRIDP</b>	<b>15-1065</b> <b>vBRIDP</b>

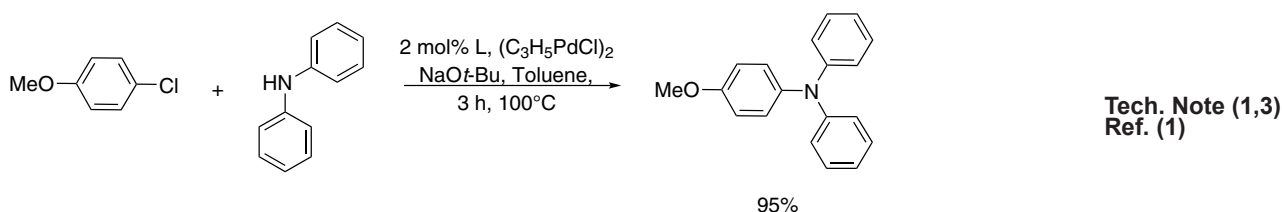
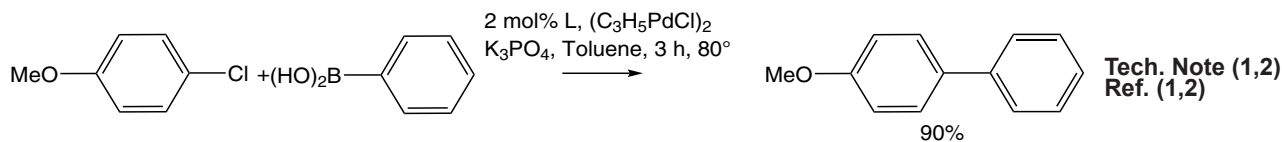
Item#	Description	CAS#	Unit Sizes
15-1005	Dicyclohexyl(2,2-diphenyl-1-methylvinyl)phosphine Cy-vBRIDP	742103-27-1	250mg, 1g, 5g
15-1007	Dicyclohexyl(2,2-diphenyl-1-methylcyclopropyl)phosphine Cy-cBRIDP	1023330-38-2	250mg, 1g, 5g
15-1062	Dicyclohexyl(2,2-diphenyl-1-methylvinyl)phosphine Cy-vBRIDP	384842-24-4	250mg, 1g, 5g
15-1065	Di-t-butyl(2,2-diphenyl-1-methylvinyl)phosphine, min. 98% vBRIDP	384842-25-5	250mg, 1g, 5g

**15-1005**    **Di-t-butyl(2,2-diphenyl-1-methyl-1-cyclopropyl)phosphine cBRIDP (742103-27-1)**  
 $C_{24}H_{33}P$ ; FW: 352.49; white to pale yellow solid  
*air sensitive, (store cold)*  
 Note: Manufactured under license of Takasago patent US7129367B2.



### Technical Notes:

- Ligand effective for many classes of palladium-catalyzed coupling of aryl halides, including the Miyaura-Suzuki, Buchwald-Hartwig, Sonogashira, Heck, aryl etherification, and carbonylation reactions.
- Ligand used in the palladium catalyzed Suzuki-Miyaura coupling of aryl boronic acids.
- Ligand employed in the palladium-catalyzed Buchwald-Hartwig aryl amination reaction.



### References:

- US Patent 7129367.
- Synlett., 2008, 12, 1809.

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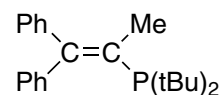
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**15-1065 Di-t-butyl(2,2-diphenyl-1-methylvinyl)phosphine, min. 98% vBRIDP (384842-25-5)**  
 $C_{23}H_{31}P$ ; FW: 338.47; white to pale yellow xtl.  
*air sensitive, (store cold)*  
 Note: Manufactured under license of Takasago patent US6455720.

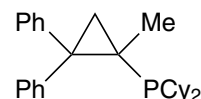


250mg  
1g  
5g

Technical Note:

1. See 15-1005 (page 1)

**15-1007 Dicyclohexyl(2,2-diphenyl-1-methylcyclopropyl)phosphine Cy-cBRIDP (1023330-38-2)**  
 $C_{28}H_{37}P$ ; FW: 404.57; white to pale yellow solid  
*air sensitive, (store cold)*  
 Note: Manufactured under license of Takasago patent US7129367B2.

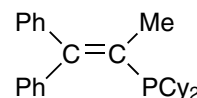


250mg  
1g  
5g

Technical Note:

1. See 15-1005 (page 1)

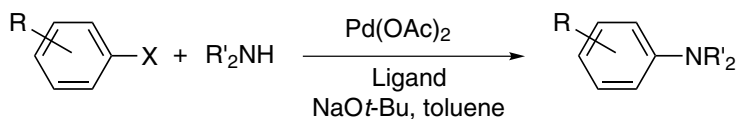
**15-1062 Dicyclohexyl(2,2-diphenyl-1-methylvinyl)phosphine Cy-vBRIDP (384842-24-4)**  
 $C_{25}H_{35}P$ ; FW: 366.52; white to pale yellow solid  
*air sensitive, (store cold)*  
 Note: Manufactured under license of Takasago patent US6455720.



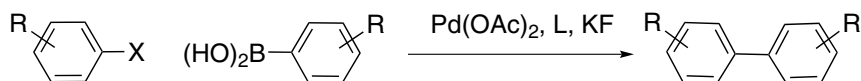
250mg  
1g  
5g

Technical Notes:

1. Ligand used in the Pd-catalyzed amination of aryl halides.
2. Ligand used for Suzuki-Miyaura coupling.



Tech. Note (1)  
Ref. (1)



Tech. Note (2)  
Ref. (2)

References:

1. *Adv. Synth. Catal.*, **2007**, *349*, 2089.
2. *Synlett*, **2007**, *20*, 3206.

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