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Catalog # 15-5163 (11aS)-(-)-10,11,12,13-Tetrahydroindeno[7,1-de:1',7'-fg][1,3,2]dioxaphosphocin-5-bis[(R)-1-phenylethyl]amine,  
min. 98% (S)-SIPHOS-PE

Note: Spiro Monophosphite and Monophosphoramidite Ligand Kit component.

Technical Notes:

1. Ligand used for the asymmetric palladium-catalyzed hydrosilylation of styrenes. Preparation of chiral alcohols.
2. Ligand used for the highly enantioselective nickel-catalyzed hydrovinylation of  $\alpha$ -alkyl vinylarenes.

References:

1. *Tetrahedron: Asymmetry*, **2004**, 15, 2231.
2. *J. Am. Chem. Soc.*, **2006**, 128, 2780.