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Catalog # 15-5618 (11bS)-N,N-Bis[(R)-1-phenylethyl]-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin-4-amine

Technical Notes:

 Cyclization - Enantioselective cyclization of aromatic ketimines containing alkenyl groups tethered at the meta position of an imine directing group has been achieved using 5 mol% [RhCl(coe)2]2 and 15 mol % of this (S)-BINOL-derived phosphoramidite ligand.

$$\begin{array}{c|c} \text{BnN} & & & \text{ERhCl(coe)}_{2}]_{2} \\ \text{Ligand} & & \\ \text{PhMe, rt to } 75^{\circ}\text{C} & & \\ \text{X} & & & \\ \end{array}$$

References:

1. J. Am. Chem. Soc., 2004, 126, 7192-7193.