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Catalog # 15-5185 (11aS)-(+)-5,6,10,11,12,13-Hexahydro-5-phenyl-4H-diindeno[7,1-cd:1',7'-ef]phosphocin, min. 97% (S)-SITCP

Technical Note:

- 1. Phosphine-catalyzed intra-and intermolecular gamma-addition of nitrogen nucleophiles to allenoates and alkynoates.
- 2. Catalytic asymmetric construction of the tryptanthrin skeleton via enantioselective decarboxylative [4+2] cyclization.
- 3. Catalytic, enantioselective carbon-oxygen bond formation phosphine-catalyzed synthesis of benzylic esters via oxidation of benzylic C-H bonds.
- 4. Use of a new spirophosphine to achieve catalytic, enantioselective [4+1] annulations of amines with allenes to generate dihydropyrroles.

References:

- 1. Angew. Chem. Int. Ed., 2013, 52, 2525.
- 2. Org. Lett., 2017, 19, 3219.
- 3. J. Am. Chem. Soc., 2016, 138, 12069.
- 4. J. Am. Chem. Soc., 2015, 137, 3803.