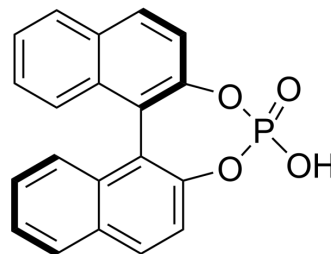


## (R)-1,1'-Binaphthyl-2,2'-diyl hydrogenphosphate

<b>Cat. No.:</b>	HY-I0718
<b>CAS No.:</b>	39648-67-4
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>13</sub> O <sub>4</sub> P
<b>Molecular Weight:</b>	348.29
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (287.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.8712 mL	14.3559 mL	28.7117 mL
		5 mM	0.5742 mL	2.8712 mL	5.7423 mL
		10 mM	0.2871 mL	1.4356 mL	2.8712 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	(R)-(-)-1,1'-Binaphthyl-2,2'-diyl Hydrogenphosphate is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
<b>In Vitro</b>	(R)-(-)-1,1'-Binaphthyl-2,2'-diyl hydrogen phosphate is a chiral ligand used in hydrocarboxylation reactions. Complexes with rhodium and mediates the asymmetric dipolar cyclodition of diazo compounds. A number of racial amines which have proven difficult to separate have been resolved with this chiral acid. Palladium derivatives have been used in asymmetric hydrocarboxylations, and rhodium derivatives have been used in dipolar cycloditions. Used in a chiral Bronsted acid catalyzed enantioselective Mannich reaction.

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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