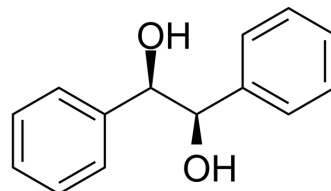


## (R,R)-(+)-Hydrobenzoin

<b>Cat. No.:</b>	HY-59125
<b>CAS No.:</b>	52340-78-0
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>14</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	214.26
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<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 (466.72 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	4.6672 mL	23.3361 mL	46.6723 mL
		5 mM	0.9334 mL	4.6672 mL	9.3345 mL
	10 mM	0.4667 mL	2.3336 mL	4.6672 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 4.55 mg/mL (21.24 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.67 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.67 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	(R,R)-(+)-Hydrobenzoin is a organocatalysts <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### REFERENCES

[1]. Kwan SooKim, et al. Synthesis of enantiopure cyclopentitols and aminocyclopentitols mediated by oxyselenenylation of cyclopentene with (R,R)-hydrobenzoin.

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Tetrahedron Letters. 1988.

[2]. (+)-(1R,2R)-1,2-Diphenylethane-1,2-diol.

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

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