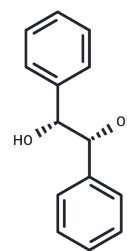


(R,R)-(+)-Hydrobenzoin

Chemical Properties

CAS No. :	52340-78-0
Formula:	C ₁₄ H ₁₄ O ₂
Molecular Weight:	214.26
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	(R,R)-(+)-Hydrobenzoin is an o-diol compound with chiral configuration, which belongs to endogenous metabolites and is often used as chiral ligand or chiral auxiliary reagent in asymmetric synthesis to induce stereoselectivity. (R,R)-(+)-Hydrobenzoin rigid diphenyl glycol skeleton can form complexes with metal ions, which has important application value in catalysis and chiral recognition research.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 100 mg/mL (466.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0933 mL	0.4667 mL	0.9334 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kwan SooKim, et al. Synthesis of enantiopure cyclopentitols and aminocyclopentitols mediated by oxyselenenylation of cyclopentene with (R,R)-hydrobenzoin. Tetrahedron Letters. 1988.

Shabbir SH, et al. Molecular recognition and self-assembly special feature: A general protocol for creating high-throughput screening assays for reaction yield and enantiomeric excess applied to hydrobenzoin. Proc Natl Acad Sci U S A. 2009 Jun 30;106(26):10487-92.

Tran R, Kilyanek SM. Deoxydehydration of polyols catalyzed by a molybdenum dioxo-complex supported by a dianionic ONO pincer ligand. Dalton Trans. 2019 Nov 21;48(43):16304-16311.

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