

Ethyl mandelate

Chemical Properties

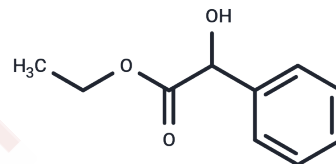
CAS No. : 774-40-3

Formula: C₁₀H₁₂O₃

Molecular Weight: 180.2

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ethyl mandelate is an intermediate of Pemoline with antimicrobial activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5494 mL	27.7469 mL	55.4939 mL
5 mM	1.1099 mL	5.5494 mL	11.0988 mL
10 mM	0.5549 mL	2.7747 mL	5.5494 mL
50 mM	0.111 mL	0.5549 mL	1.1099 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

- Jafari E, et al. Synthesis and antimicrobial evaluation of some 2,5 disubstituted 1,3,4-oxadiazole derivatives. Res Pharm Sci. 2017 Aug;12(4):330-336.
- Park BY, et al. Osmium(0)-Catalyzed C-C Coupling of Ethylene and α -Olefins with Diols, Ketols, or Hydroxy Esters via Transfer Hydrogenation. J Org Chem. 2016 Sep 16;81(18):8585-94.
- Wang PY, Tsai SW, Chen TL. Improvements of enzyme activity and enantioselectivity via combined substrate engineering and covalent immobilization. Biotechnol Bioeng. 2008 Oct 15;101(3):460-9.
- Delgado O, et al. Synthesis and configurational assignment of the amino alcohol in the eastern fragment of the GE2270 antibiotics by regio- and stereoselective addition of 2-metalated 4-bromothiazoles to alpha-chiral electrophiles. J Org Chem. 2006 Jun 9;71(12):4599-608.

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