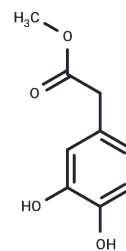


## Methyl 3,4-Dihydroxyphenylacetate

## Chemical Properties

CAS No. :	25379-88-8
Formula:	C <sub>9</sub> H <sub>10</sub> O <sub>4</sub>
Molecular Weight:	182.17
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	Methyl 3,4-Dihydroxyphenylacetate is an effective enterovirus 71 (EV71) inhibitor capable of suppressing EV71 replication in rhabdomyosarcoma (RD) cells, exhibiting antiviral activity.
Targets(IC50)	Antiviral, Virus Protease

## Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (54.89 mM), Sonication is recommended. DMF: 30 mg/mL (164.68 mM), Sonication is recommended. DMSO: ≥ 24 mg/mL, Sonication is recommended. Ethanol: 30 mg/mL (164.68 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	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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

Nahar L, et al. Antioxidant phenylacetic acid derivatives from the seeds of *Ilex aquifolium*. *Acta Pharm.* 2005 Jun;55 (2):187-93.

Wang L, et al. Anti-Enterovirus 71 Agents of Natural Products. *Molecules.* 2015 Sep 9;20(9):16320-33.

Zhang YQ, et al. [Methyl 3, 4-dihydroxyphenylacetate prevents enterovirus 71 proliferation in rhabdomyosarcoma cells]. *Yao Xue Xue Bao.* 2012 Sep;47(9):1257-60. Chinese.

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