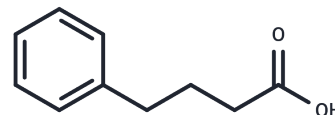


4-Phenylbutyric acid

Chemical Properties

CAS No. :	1821-12-1
Formula:	C ₁₀ H ₁₂ O ₂
Molecular Weight:	164.2
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	4-Phenylbutyric acid (Benzenebutyric acid) is an inhibitor of HDAC, and is an antineoplastic agent.
Targets(IC50)	Virus Protease, HDAC
In vitro	Benzenebutyric acid is an inhibitor of HDAC, inhibits the growth of NSCLC Cell Lines at 2 mM. Benzenebutyric acid in combination with ciglitizone results in enhanced growth arrest of cancer cells[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (304.51 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0901 mL	30.4507 mL	60.9013 mL
5 mM	1.218 mL	6.0901 mL	12.1803 mL
10 mM	0.609 mL	3.0451 mL	6.0901 mL
50 mM	0.1218 mL	0.609 mL	1.218 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.

Reference

Tsg-Hui C , Eva S . Enhanced growth inhibition by combination differentiation therapy with ligands of peroxisome proliferator-activated receptor- γ and inhibitors of histone deacetylase in adenocarcinoma of the lung[J].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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