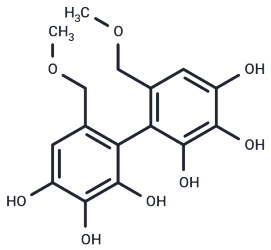
Data Sheet (Cat.No.T39030)

TargetMol

HBDDE

Chemical Properties



CAS No. : 154675-18-0

Formula: C16H18O8

Molecular Weight: 338.31

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	HBDDE is a selective model inhibitor of the isoenzymes PKCα and PKCγ with IC 50 s of 43 μM and 50 μM, respectively.HBDDE has a higher affinity for PKCα/PKCγ than the PKCδ, PKCβI, and PKCβII isoenzymes.HBDDE is a derivative of ellagic acid, which induces apoptosis in neuronal cells. HBDDE is a derivative of ellagic acid and induces apoptosis in neuronal cells.
Targets(IC50)	Apoptosis,PKC
In vitro	HBDDE (50 μM; 5 h; Cerebellar granule cells) leads to a substantial reduction in cell viability by approximately 70%. Additionally, HBDDE demonstrates a notable augmentation in caspase-3 activity.[1]

Solubility Information

Solubility	DMSO: 4.5 mg/mL (13.3 mM),Sonication is recommended. H2O: 0.9 mg/mL (2.66 mM),Sonication is recommended. Ethanol: 0.9 mg/mL (2.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9559 mL	14.7793 mL	29.5587 mL
5 mM	0.5912 mL	2.9559 mL	5.9117 mL
10 mM	0.2956 mL	1.4779 mL	2.9559 mL
50 mM	0.0591 mL	0.2956 mL	0.5912 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

A Mathur, et al. 2,2',3,3',4,4'-Hexahydroxy-1,1'-biphenyl-6,6'-dimethanol dimethyl ether (HBDDE)-induced neuronal apoptosis independent of classical protein kinase C alpha or gamma inhibition. Biochem Pharmacol. 2000 Sep 15;60(6):809-15.

Y Kashiwada, et al. New hexahydroxybiphenyl derivatives as inhibitors of protein kinase C. J Med Chem. 1994 Jan 7;37(1):195-200.

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