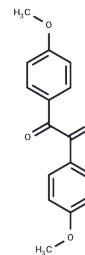


4,4'-DIMETHOXYBENZIL

Chemical Properties

CAS No. :	1226-42-2
Formula:	C ₁₆ H ₁₄ O ₄
Molecular Weight:	270.28
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	4,4'-Dimethoxybenzil (p-Anisil) is a human intestinal carboxyl esterase (hiCE) inhibitor (Ki : 70 nM).
Targets(IC50)	Others,Cholinesterase (ChE)
In vitro	HiCE inhibitors (4,4'-Dimethoxybenzil) mitigate irinotecan-induced diarrhea, thereby enhancing the anticancer efficacy of irinotecan.

Solubility Information

Solubility	DMSO: 6.25 mg/mL (23.12 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	3.6999 mL	18.4993 mL	36.9987 mL
5 mM	0.740 mL	3.6999 mL	7.3997 mL
10 mM	0.370 mL	1.8499 mL	3.6999 mL
50 mM	0.074 mL	0.370 mL	0.740 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

Guodong Z , Hu G E , Qiong G U , et al. Predicting hiCE inhibitors based upon pharmacophore models derived from the receptor and its ligands[J]. Science China(Chemistry), 2013(10):80-90.

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