

Prostaglandin D2 Ethanolamide

Chemical Properties

CAS No. :	398138-28-8
Formula:	C22H37NO5
Molecular Weight:	395.53
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Prostaglandin D2 Ethanolamide is a metabolite generated from arachidonoyl ethanolamide via the COX-2 pathway, which induces apoptosis in colorectal cancer cells.
Targets(IC50)	Apoptosis
In vitro	Methods: Colorectal cancer cell lines were treated with different concentrations of Prostaglandin D2 Ethanolamide (1-10 μ M) for 72 h to detect its effects on cell growth and survival. Results: Prostaglandin D2 Ethanolamide (1-10 μ M, treatment for 72 h) could inhibit cell proliferation and induce cell death in colorectal cancer (CRC) cell lines [1].

Solubility Information

Solubility	DMSO: 4.15 mg/mL (10.49 mM),Sonication is recommended. DMF: 4.15 mg/mL (10.49 mM),Sonication is recommended. Ethanol: 6.25 mg/mL (15.8 mM),Sonication is recommended. PBS (pH 7.2): 1.25 mg/mL (3.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5283 mL	12.6413 mL	25.2825 mL
5 mM	0.5057 mL	2.5283 mL	5.0565 mL
10 mM	0.2528 mL	1.2641 mL	2.5283 mL
50 mM	0.0506 mL	0.2528 mL	0.5057 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

H A Patsos, et al. The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase. Gut. 2005 Dec;54(12):1741-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481