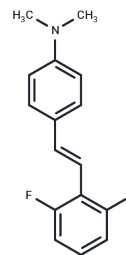


FIDAS-3

Chemical Properties

CAS No. :	1266684-01-8
Formula:	C ₁₆ H ₁₅ F ₂ N
Molecular Weight:	259.29
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	FIDAS-3, a stilbene derivative and potent Wnt inhibitor with an IC ₅₀ of 4.9 μM for methionine S-adenosyltransferase 2A (MAT2A), exhibits anticancer activities by effectively competing with S-adenosylmethionine (SAM) for MAT2A binding.
Targets(IC ₅₀)	Methionine Adenosyltransferase (MAT),Wnt/beta-catenin
In vitro	FIDAS-3 induces the expression of cell cycle inhibitor, p21WAF1/CIP1. FIDAS-3 (10 μM; 36 h) treatment reduces the levels of both S-adenosylmethionine (SAM) and S-adenosylhomocysteine (SAH) in LS174T cells.FIDAS-3 (3 μM; 7 days; LS174T cells) treatment significantly inhibits the proliferation of LS174T cells. FIDAS-3 (3-10 μM) treatment inhibits the expression of c-Myc and cyclinD1 in LS174T CRC cells.
In vivo	FIDAS-3 (20 mg/kg; intraperitoneal injection; daily; for one months; C57BL/6J athymic nude mice) treatment significantly inhibits the growth of xenograft tumors.

Solubility Information

Solubility	DMSO: 90 mg/mL (347.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (12.73 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8567 mL	19.2834 mL	38.5669 mL
5 mM	0.7713 mL	3.8567 mL	7.7134 mL
10 mM	0.3857 mL	1.9283 mL	3.8567 mL
50 mM	0.0771 mL	0.3857 mL	0.7713 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

Zhang W, et al. Fluorinated N,N-dialkylaminostilbenes repress colon cancer by targeting methionine S-adenosyltransferase 2A. ACS Chem Biol. 2013 Apr 19;8(4):796-803.

Zhang W, et al. Fluorinated N,N-dialkylaminostilbenes for Wnt pathway inhibition and colon cancer repression. J Med Chem. 2011 Mar 10;54(5):1288-97.

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