Data Sheet (Cat.No.T11303)

TargetMol

Fluorobexarotene

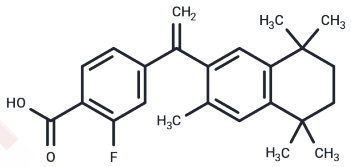
Chemical Properties

CAS No. : 1190848-23-7

Formula: C24H27FO2

Molecular Weight: 366.47

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	Fluorobexarotene possesses an apparent RXR binding affinity that is 75% greater than Bexarotene. Fluorobexarotene is a potent retinoid-X-receptor (RXR) agonist, with a Ki value of 12 nM and an EC50 value of 43 nM for RXRα receptor. Fluorobexarotene possesses an apparent RXR binding affinity that is 75% greater than Bexarotene.
Targets(IC50)	Retinoid Receptor

Solubility Information

Solubility	DMSO: 5 mg/mL (13.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7287 mL	13.6437 mL	27.2874 mL
5 mM	0.5457 mL	2.7287 mL	5.4575 mL
10 mM	0.2729 mL	1.3644 mL	2.7287 mL
50 mM	0.0546 mL	0.2729 mL	0.5457 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

Wagner CE, et al. Modeling, synthesis and biological evaluation of potential retinoid X receptor (RXR) selective agonists: novel analogues of 4-[1-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic acid (bexarotene). J Med Chem. 2009 Oct 8;52(19):5950-66.

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