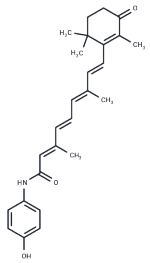
Data Sheet (Cat.No.T4189)

TargetMol

4-Oxofenretinide

Chemical Properties



CAS No. : 865536-65-8

Formula: C26H31NO3

Molecular Weight: 405.53

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-Oxofenretinide (3-Keto fenretinide) , a recently identified fenretinide metabolite, induces marked G2-M cell cycle arrest and apoptosis.
Targets(IC50)	Apoptosis,Cell Cycle Arrest,Reactive Oxygen Species,Drug Metabolite,ROS

Solubility Information

Solubility	DMSO: 50 mg/mL (123.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4659 mL	12.3295 mL	24.6591 mL
5 mM	0.4932 mL	2.4659 mL	4.9318 mL
10 mM	0.2466 mL	1.233 mL	2.4659 mL
50 mM	0.0493 mL	0.2466 mL	0.4932 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

Villani MG,et al.4-oxo-fenretinide, a recently identified fenretinide metabolite, induces marked G2-M cell cycle arrest and apoptosis in fenretinide-sensitive and fenretinide-resistant cell lines. Cancer Res. 2006 Mar 15;66(6): 3238-47.

Appierto V,et al.Antimitotic effect of the retinoid 4-oxo-fenretinide through inhibition of tubulin polymerization: a novel mechanism of retinoid growth-inhibitory activity. Mol Cancer Ther. 2009 Dec;8(12):3360-8.

Villani MG,et al.Identification of the fenretinide metabolite 4-oxo-fenretinide present in human plasma and formed in human ovarian carcinoma cells through induction of cytochrome P450 26A1. Clin Cancer Res. 2004 Sep 15;10(18 Pt 1):6265-75.

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