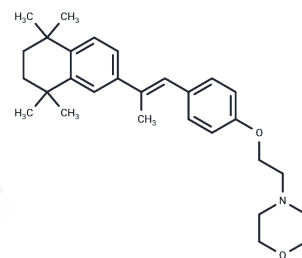


Mofarotene

Chemical Properties

CAS No. :	125533-88-2
Formula:	C ₂₉ H ₃₉ NO ₂
Molecular Weight:	433.63
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	Mofarotene (Ro-40-8757) is a small molecule compound that shows considerable antitumor activity in many cancer cell lines and can be used for the treatment of tumors and respiratory diseases. Mofarotene is a retinoic acid analog that binds to and activates retinoic acid receptors (RARs), which alters the expression of certain genes, leading to reduced cell differentiation and cell proliferation in susceptible cells.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Retinoid Receptor, Caspase, ROS

Solubility Information

Solubility	DMSO: 2.17 mg/mL (5 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	2.3061 mL	11.5306 mL	23.0611 mL
5 mM	0.4612 mL	2.3061 mL	4.6122 mL
10 mM	0.2306 mL	1.1531 mL	2.3061 mL
50 mM	0.0461 mL	0.2306 mL	0.4612 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

Valles B, et al. Metabolism of mofarotene in hepatocytes and liver microsomes from different species. Comparison with in vivo data and evaluation of the cytochrome P450 isoenzymes involved in human biotransformation. *Drug Metab Dispos.* 1995;23(10):1051-1057.

Eliason JF, et al. Mofarotene (Ro 40-8757) inhibits hematopoiesis in vitro by preventing maturation from primitive progenitor cells. *Blood.* 1995;86(12):4516-4526.

Vallès B, et al. In vivo and in vitro kinetics of mofarotene in mouse, rat, dog and man. *Eur J Drug Metab Pharmacokinet.* 1995;20(1):49-53.

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