

Etarotene

Chemical Properties

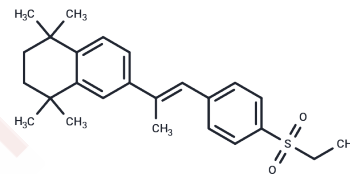
CAS No. : 87719-32-2

Formula: C₂₅H₃₂O₂S

Molecular Weight: 396.59

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	Etarotene (Arotinoid ethyl sulphone) is an ethylsulfonyl derivative of aloe acid with differentiation-inducing and potentially antitumor activity. Etarotene is a collagenase inhibitor and can be used to study psoriasis.
Targets(IC50)	Others, Tyrosinase
In vivo	Etarotene (6 mg/kg; oral; 1 and 2 weeks; rats) show weight loss, alopecia, erythema, desquamation of the skin, and alterations of the skeletal system. The present demonstration that the arotinoid ethyl sulfone Etarotene was devoid of bone toxicity constitutes major progress in the pharmacologic development of retinoids with a better balance between therapeutic and adverse effects.[5]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5215 mL	12.6075 mL	25.215 mL
5 mM	0.5043 mL	2.5215 mL	5.043 mL
10 mM	0.2521 mL	1.2607 mL	2.5215 mL
50 mM	0.0504 mL	0.2521 mL	0.5043 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

Zheng ZS, et al. Regulation of the induction of ornithine decarboxylase in keratinocytes by retinoids. *Biochem J.* 1995 Jul 1;309 (Pt 1):159-65.

Xue GZ, et al. Phorbol 12-myristate 13-acetate inhibits epidermal growth factor signalling in human keratinocytes, leading to decreased ornithine decarboxylase activity. *Biochem J.* 1996 Oct 15;319 (Pt 2):641-8.

Wyss R, et al. Quantitative analysis of retinoids in biological fluids by high-performance liquid chromatography using column switching. III. Determination of the arotinoid sumarotene and its Z-isomer in human and animal plasma. *J Chromatogr.* 1992 Apr 15;576(1):111-20.

Kistler A, et al. Comparative teratogenicity of three retinoids: the arotinoids Ro 13-7410, Ro 13-6298 and Ro 15-1570. *Arch Toxicol.* 1990;64(1):43-48.

Kistler A, et al. Ro 15-1570, a new sulfur-containing retinoid devoid of bone toxicity in rats. *Arch Toxicol.* 1984;56 (2):117-122.

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