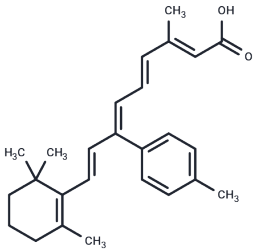
Data Sheet (Cat.No.T23384)

TargetMol

SR 11302

Chemical Properties



CAS No. : 160162-42-5

Formula: C26H32O2

Molecular Weight: 376.53

Storage: Store at low temperature,Keep away from moisture
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	SR 11302 is an inhibitor of activator protein-1 (AP-1).
Targets(IC50)	DNA/RNA Synthesis
In vitro	SR 11302 can inhibit the growth of breast cancer cell line T-47D, the lung cancer line Calu-6, and HeLa cells. SR 11302 had very little effect on either the proliferation or the differentiation of HL-60, fresh APL, and NB4 cells[2].
In vivo	In an AP-1-luciferase transgenic mouse carcinogenesis model, SR11302 significantly inhibits both AP-1 activations in 7,12-dimethyl benz(a)anthracene-initiated mouse skin and 12-O-tetradecanoylphorbol-13-acetate-induced papilloma formation[3].

Solubility Information

Solubility	DMSO: 75 mg/mL (199.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6558 mL	13.2792 mL	26.5583 mL
5 mM	0.5312 mL	2.6558 mL	5.3117 mL
10 mM	0.2656 mL	1.3279 mL	2.6558 mL
50 mM	0.0531 mL	0.2656 mL	0.5312 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

C Huang, et al. Blocking activator protein-1 activity, but not activating retinoic acid response element, is required for the antitumor promotion effect of retinoic acid. Proc Natl Acad Sci U S A. 1997 May 27;94(11):5826-30.
Zheng M, Zhai Y, Yu Y, et al.TNF compromises intestinal bile-acid tolerance dictating colitis progression and limited infliximab response.Cell Metabolism.2024
Bradley A Maron, et al. Upregulation of steroidogenic acute regulatory protein by hypoxia stimulates aldosterone synthesis in pulmonary artery endothelial cells to promote pulmonary vascular fibrosis. Circulation. 2014 Jul 8;130 (2):168-79.

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