

SR 11302

## Chemical Properties

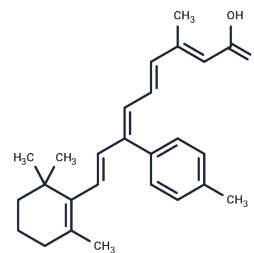
CAS No. : 160162-42-5

Formula: C<sub>26</sub>H<sub>32</sub>O<sub>2</sub>

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)
In vivo Formulation	10% DMSO+90% Saline: < 7.5 mg/mL (19.92 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 7.5 mg/mL (19.92 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	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

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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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