

SR 11302

## Chemical Properties

CAS No.:	160162-42-5
Formula:	C <sub>26</sub> H <sub>32</sub> O <sub>2</sub>
Molecular Weight:	376.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	SR 11302 is an inhibitor of activator protein-1 (AP-1).
In vitro	SR 11302 doesn't activate RARs and RXR. SR11302 failed to inhibit the proliferation of F9 cells, the embryonal carcinoma cell line. While, it 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, which indicate that AP-1 may not be involved in the signaling pathway of proliferation and differentiation of HL-60, fresh APL, and NB4 cells [1][2].
In vivo	AP-1 is a transcription factor that displays antitumor effects 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. While, SR11235, a retinoid with RARE transactivating activity, but lack of AP-1 inhibiting effect, didn't inhibit papilloma formation and AP-1 activation. These results show that the antitumor effect of retinoids is mediated by blocking AP-1 activity in vivo [3].

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.656 mL	13.279 mL	26.558 mL
5 mM	0.531 mL	2.656 mL	5.312 mL
10 mM	0.266 mL	1.328 mL	2.656 mL
50 mM	0.053 mL	0.266 mL	0.531 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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