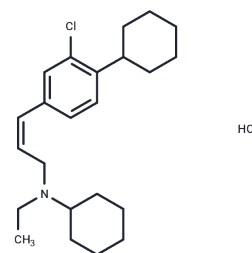


SR-31747

Chemical Properties

CAS No. : 132173-07-0
Formula: C₂₃H₃₅Cl₂N
Molecular Weight: 396.44
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	SR-31747 blocks cell proliferation by inhibiting sterol isomerase. SR-31747 is a sigma ligand. It has immunosuppressive and anti-inflammatory properties.
Targets(IC50)	Others
In vitro	SR-31747 (10 nM) blocks the proliferation of lymphocytes at a concentration. SR-31747 arrests proliferation in yeast cells in a dose-dependent manner. SR-31747 is capable of inhibiting T-cell proliferation when added as late as 24 h after activation [2].
In vivo	SR-31747 dramatically blocks lipopolysaccharide-induced production of IL-1, IL-6, and TNF- α in a dose-dependent manner (ED50: 2 mg/kg) in vivo. SR-31747 probably abrogated monokine production through an indirect mechanism that involves endogenous corticosteroids. Ablation of corticosteroids by the use of Mifepristone or adrenalectomy suppresses the effect of SR-31747. Administration of SR-31747 induces an enhancement of the corticosterone level. SR-31747 improves the survival of animals with endotoxic shock as a result of monokine inhibition [1].

Solubility Information

Solubility	DMSO: 15.62 mg/mL (39.40 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	2.5224 mL	12.6122 mL	25.2245 mL
5 mM	0.5045 mL	2.5224 mL	5.0449 mL
10 mM	0.2522 mL	1.2612 mL	2.5224 mL
50 mM	0.0504 mL	0.2522 mL	0.5045 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.

Reference

Derocq JM, et al. In vivo inhibition of endotoxin-induced pro-inflammatory cytokines production by the sigma ligand SR 31747. J Pharmacol Exp Ther. 1995 Jan;272(1):224-30.

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