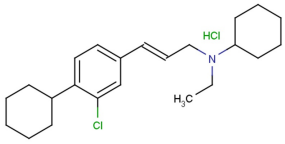
Data Sheet (Cat.No.T16926)

TargetMol
A DRUG SCREENING EXPERT

SR-31747

Chemical Properties



CAS No.:	132173-07-0
Formula:	C23H35Cl2N
Molecular Weight:	396.44
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	Sigma ligand: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.522 mL	12.612 mL	25.224 mL
5 mM	0.504 mL	2.522 mL	5.045 mL
10 mM	0.252 mL	1.261 mL	2.522 mL
50 mM	0.05 mL	0.252 mL	0.504 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. Silve S, et al. The immunosuppressant SR 31747 blocks cell proliferation by inhibiting a steroid isomerase in Saccharomyces cerevisiae. Mol Cell Biol. 1996 Jun;16(6):2719-27.

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