

Ro24-7429

Chemical Properties

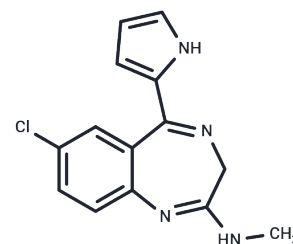
CAS No. : 139339-45-0

Formula: C₁₄H₁₃ClN₄

Molecular Weight: 272.73

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Ro24-7429 is an effective and orally active antagonist of HIV-1 transactivator protein Tat and an inhibitor of a runt-related transcription factor 1. Ro24-7429 has anti-HIV, antifibrotic, and anti-inflammatory effects.
Targets(IC50)	HIV Protease
In vitro	Ro24-7429 (50-200 μ M; 24-72 hours) strongly inhibits the proliferation of A549 and HLF cells in a dose-dependent manner. Ro24-7429 treatment (75 μ M) significantly reduces TNF- α -induced up-regulation of RUNX1 mRNA by 50% at 48 hours[1]. Ro 24-7429 (1-25 μ M) induces apoptosis and inhibits antigen-induced lymphocyte proliferation. Ro 24-7429 (0.1 μ M, 1 μ M, 5 μ M; 3 days) induces apoptosis of cultured PBMCs in a dose-dependent manner[2].
In vivo	Ro24-7429 (17.5-70 mg/kg; i.p.) curbs expression of fibrosis markers in injured mouse lungs. Ro24-7429 robustly ameliorates lung fibrosis and inflammation in the Bleomycin-induced pulmonary fibrosis mouse model[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (220.00 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	3.6666 mL	18.3332 mL	36.6663 mL
5 mM	0.7333 mL	3.6666 mL	7.3333 mL
10 mM	0.3667 mL	1.8333 mL	3.6666 mL
50 mM	0.0733 mL	0.3667 mL	0.7333 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

Patki AH, Lederman MM. HIV-1 Tat protein and its inhibitor Ro 24-7429 inhibit lymphocyte proliferation and induce apoptosis in peripheral blood mononuclear cells from healthy donors. Cell Immunol. 1996 Apr 10;169(1):40-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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