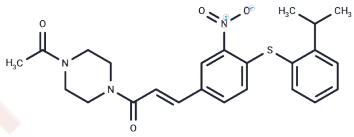
Data Sheet (Cat.No.T21781)

TargetMol

A-286982

Chemical Properties



CAS No. : 280749-17-9

Formula: C24H27N3O4S

Molecular Weight: 453.55

Storage: 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	A 286982 is an inhibitor that blocks the integrin-ligand interaction between leukocyte function-associated antigen-1 (LFA-1) and intercellular adhesion molecule-1.
Targets(IC50)	Integrin
In vitro	A 286982 is a selective inhibitor of LFA-1/ICAM-1 binding and LFA-1 with IC50 values of 44 nM and 35 nM, respectively[2].

Solubility Information

Solubility	DMSO: 45.35 mg/mL (99.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.2 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2048 mL	11.0241 mL	22.0483 mL
5 mM	0.441 mL	2.2048 mL	4.4097 mL
10 mM	0.2205 mL	1.1024 mL	2.2048 mL
50 mM	0.0441 mL	0.2205 mL	0.441 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.

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

Liu G, Link JT, Pei Z, et al. Discovery of novel p-arylthio cinnamides as antagonists of leukocyte function-associated antigen-1/intracellular adhesion molecule-1 interaction. 1. Identification of an additional binding pocket based on an anilino diaryl sulfide lead. J Med Chem. 2000;43(21):4025-4040. doi:10.1021/jm0002782

Keating SM, Clark KR, Stefanich LD, et al. Competition between intercellular adhesion molecule-1 and a small-molecule antagonist for a common binding site on the alphal subunit of lymphocyte function-associated antigen-1. Protein Sci. 2006;15(2):290-303. doi:10.1110/ps.051583406