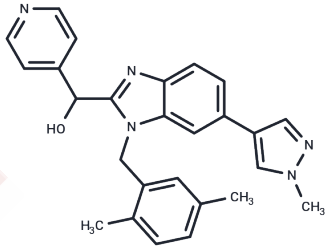
Data Sheet (Cat.No.T13951)

TargetMol

UCB-9260

Chemical Properties



CAS No. : 1515888-53-5

Formula: C26H25N5O

Molecular Weight: 423.51

Storage: Store at low temperature
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	UCB-9260 inhibits TNF signaling by stabilizing an asymmetric form of the trimer.
Targets(IC50)	TNF
In vitro	In Hek-293 cells, UCB-9260 (0-10 μM)?inhibits NF-κB with a geometric mean IC50?of 202?nM after TNF (10?pM) stimulation. UCB-9260?inhibits TNF-dependent cytotoxicity with a geometric mean IC50?of 116?nM and a geometric mean IC50?of 120?nM, using human and mouse TNF, respectively.
In vivo	UCB-9260 (150?mg/kg; p.o.) treatment twice daily?for 7 days shows a significant reduction of the clinical score. In adult male Balb/c mice, UCB-9260?(10-300?mg/kg; p.o.) dose-dependently inhibits human and mouse TNF-induced neutrophil recruitment to the peritoneal compartment.

Solubility Information

Solubility	DMSO: 81.7 mg/mL (192.91 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: 5 mg/mL (11.81 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	2.3612 mL	11.8061 mL	23.6122 mL
5 mM	0.4722 mL	2.3612 mL	4.7224 mL
10 mM	0.2361 mL	1.1806 mL	2.3612 mL
50 mM	0.0472 mL	0.2361 mL	0.4722 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

O'Connell J, et al.Small molecules that inhibit TNF signalling by stabilising an asymmetric form of the trimer.Nat Commun. 2019 Dec 19;10(1):5795.