UCB-9260

Cat. No.: HY-133122

CAS No.: 1515888-53-5

Molecular Formula: $C_{26}H_{25}N_5O$

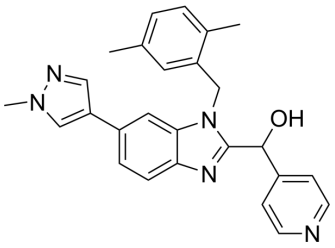
Molecular Weight: 423.51

Target: TNF Receptor

Pathway: Apoptosis

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (295.15 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 6.25 mg/mL (14.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UCB-9260, an orally active compound, inhibits TNF signaling by stabilising an asymmetric form of the trimer. UCB-9260 is selective for TNF over other superfamily members, and binds TNF with a similar K_d of 13 nM[1].

In Vitro

UCB-9260 (0-10 μM)?inhibits NF-κB with a geometric mean IC_{50}?of 202 nM after TNF (10 pM) stimulation in in Hek-293 cells[1].

?UCB-9260?inhibits TNF-dependent cytotoxicity with a geometric mean IC_{50}?of 116 nM and a geometric mean IC_{50}?of 120 nM, using human and mouse TNF, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

UCB-9260 (150?mg/kg; p.o.;twice daily?for 7 days) shows a significant reduction of the clinical score[1].

?UCB-9260?(10-300?mg/kg; p.o.) dose-dependently inhibits human and mouse TNF-induced neutrophil recruitment to the peritoneal compartment in adult male Balb/c mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Aged 6-8 weeks adult male Balb/c mice (CAIA model)[1]
Dosage:	150 mg/kg
Administration:	p.o.; twice daily for 7days
Result:	Showed a significant reduction of the clinical score.

REFERENCES

[1]. 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA