Data Sheet (Cat.No.T74799)

TargetMol

NF-κB-IN-8

Chemical Properties

CAS No. : 2924565-59-1

Formula: C24H21N3O3

Molecular Weight: 399.44

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	NF-κB-IN-8 is a competitive antagonist of LPS for MD-2 binding, and it impedes the expression of inflammatory factors by engaging MD-2. Additionally, it inhibits ALP activity and is usable in inflammation research, including acute lung injury (ALI) [1].
Targets(IC50)	NF-κB
In vitro	NF-κB-IN-8 (compound L26) at a concentration of 10 μM inhibits 64.30% of ALP activity [1]. Additionally, within a range of 1-10 μM for 24 hours, NF-κB-IN-8 suppresses the expression of IL-6 and TNF-α in RAW 264.7 cells [1]. At concentrations spanning from 0 to 50 μM, NF-κB-IN-8 hinders the binding of LPS to MD-2, as detected by ELISA [1]. At 50 μM, administered overnight, the compound prevents the formation of the LPS/MD-2/TLR4 complex in RAW264.7 cells [1].
In vivo	NF-κB-IN-8 (Compound L26), administered orally at a dose of 5 mg/kg, mitigated LPS-induced acute lung injury in mice [1]. At higher doses of 1000 and 1500 mg/kg, NF-κB-IN-8 demonstrated low toxicity and was deemed safe in mice [1]. In rats, with an administered dose of 0 mg/kg, NF-κB-IN-8 exhibited a half-life (T 1/2) of 4.2 hours and a maximum concentration (C max) of 163.288 μg/L [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5035 mL	12.5175 mL	25.035 mL
5 mM	0.5007 mL	2.5035 mL	5.007 mL
10 mM	0.2504 mL	1.2518 mL	2.5035 mL
50 mM	0.0501 mL	0.2504 mL	0.5007 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481