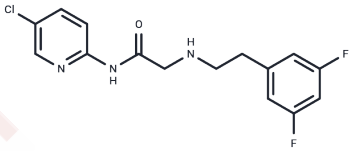
Data Sheet (Cat.No.T37449)

TargetMol

SR 12460

Chemical Properties



CAS No. : 2055101-66-9

Formula: C15H14ClF2N3O

Molecular Weight: 325.74

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	SR 12460 is a lead NBD mimic, inhibiting the interaction between IKKβ and NEMO, suppressing TNF-α and LPS-induced NF-κB activation, and reducing LPS-induced acute pulmonary inflammation in mice.
Targets(IC50)	Others
In vitro	SR 12460 inhibited TNF-α-mediated NF-κB activation with a maximum median inhibitory concentration (IC50) of 11.34 μM. SR 12460 (50 μM) inhibits tumor necrosis factor α (TNF-α) and lipopolysaccharide (LPS) - induced NF-κB activation by blocking the interaction between IKKβ and NEMO. [1]
In vivo	SR 12460 (10 mg/kg, intraperitoneal injection) inhibited LPS-induced acute lung inflammation in mice. SR 12460 (30 mg/kg intraperitoneally administered) significantly improved muscle function and muscle pathology in mdx mice. [1]

Solubility Information

Solubility	DMF: 8 mg/mL (24.56 mM),Sonication is recommended. DMSO: 8 mg/mL (24.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0699 mL	15.3497 mL	30.6993 mL
5 mM	0.614 mL	3.0699 mL	6.1399 mL
10 mM	0.307 mL	1.535 mL	3.0699 mL
50 mM	0.0614 mL	0.307 mL	0.614 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

Zhao J, et al. Development of novel NEMO-binding domain mimetics for inhibiting IKK/NF-κB activation. PLoS Biol. 2018 Jun 11;16(6):e2004663.
Yuhei Nishimura, et al. (2017) Overcoming Obstacles to Drug Repositioning in Japan. Frontiers in Pharmacology 8.