

SR12343

Chemical Properties

CAS No. : 2055101-86-3

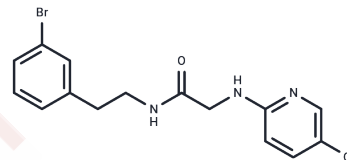
Formula: C₁₅H₁₅BrClN₃O

Molecular Weight: 368.66

Store at low temperature

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	SR12343 is a small molecule inhibitor of the IKK/NF-κB signaling pathway that functions as a NEMO-binding domain (NBD) mimetic. SR12343 inhibits NF-κB activation with an IC ₅₀ of 37.02 μM by specifically blocking the critical IKKβ-NEMO interaction, reduces pulmonary inflammation in models, and is suitable for research into inflammatory and degenerative diseases.
Targets(IC ₅₀)	NF-κB, IκB/IKK

Solubility Information

Solubility	DMSO: 80 mg/mL (217 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7125 mL	13.5626 mL	27.1253 mL
5 mM	0.5425 mL	2.7125 mL	5.4251 mL
10 mM	0.2713 mL	1.3563 mL	2.7125 mL
50 mM	0.0543 mL	0.2713 mL	0.5425 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- κ B activation. PLoS Biol. 2018 Jun 11;16(6):e2004663.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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