

RBN-3143

Chemical Properties

CAS No. : 2360853-16-1

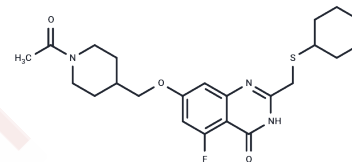
Formula: C₂₂H₂₈FN₃O₄S

Molecular Weight: 449.54

Keep away from moisture

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	RBN-3143 is a potent inhibitor of NAD ⁺ -competitive catalytic PARP14 (IC ₅₀ = 4 nM), which inhibits ADP-ribosylation mediated by PARP14 and stabilizes PARP14 in cell lines, demonstrating research potential for lung inflammation.
Targets(IC ₅₀)	PARP
In vivo	RBN-3143 (5 µg; Intranasal administration) can improve the steroid resistant asthma mouse model [1].

Solubility Information

Solubility	DMSO: 11.2 mg/mL (24.91 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.45 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2245 mL	11.1225 mL	22.245 mL
5 mM	0.4449 mL	2.2245 mL	4.449 mL
10 mM	0.2224 mL	1.1122 mL	2.2245 mL
50 mM	0.0445 mL	0.2224 mL	0.4449 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

Niepel M, et, al. The PARP14 inhibitor RBN-3143 suppresses lung inflammation in preclinical models. European Respiratory Journal 2022 60: 4642.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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