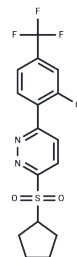


NLRP3-IN-81

Chemical Properties

CAS No. :	2922814-85-3
Formula:	C ₁₆ H ₁₅ F ₃ N ₂ O ₃ S
Molecular Weight:	372.36
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	NLRP3-IN-81 (N102) is an inhibitor capable of crossing the blood-brain barrier, effectively countering NLRP3 inflammasome-dependent pyroptosis with an EC ₅₀ of 0.029 μM for Nigericin-induced pyroptosis. It significantly suppresses caspase-1 activation and IL-1β release that depend on NLRP3. Additionally, NLRP3-IN-81 disrupts the interaction between NLRP3 and the adaptor protein ASC, while inhibiting ASC oligomerization. This compound is applicable in research on pyroptosis-related diseases, such as inflammatory bowel disease and type 2 diabetes.
Targets(IC50)	Caspase,NOD-like Receptor (NLR),Pyroptosis,Interleukin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6856 mL	13.4279 mL	26.8557 mL
5 mM	0.5371 mL	2.6856 mL	5.3711 mL
10 mM	0.2686 mL	1.3428 mL	2.6856 mL
50 mM	0.0537 mL	0.2686 mL	0.5371 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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