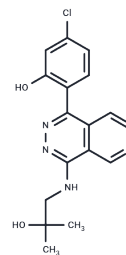


## NLRP3-IN-11

## Chemical Properties

CAS No. :	2769040-91-5
Formula:	C <sub>17</sub> H <sub>17</sub> ClN <sub>4</sub> O <sub>2</sub>
Molecular Weight:	344.8
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	NLRP3-IN-11 is an NLRP3 protein inhibitor with potential anti-inflammatory activity. NLRP3-IN-11 can be used in the study of atherosclerosis and parkinsonism.
Targets(IC50)	NOD-like Receptor (NLR),NOD
In vitro	NLRP3-IN-11 exhibits biological activity with an IC50 value of <0.3 μM in a human PBMC NLRP3 assay [1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (290.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (11.6 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

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	1mg	5mg	10mg
1 mM	2.9002 mL	14.5012 mL	29.0023 mL
5 mM	0.580 mL	2.9002 mL	5.8005 mL
10 mM	0.290 mL	1.4501 mL	2.9002 mL
50 mM	0.058 mL	0.290 mL	0.580 mL

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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

Dorich S, et al. Compounds for inhibiting NLRP3 and uses thereof: U.S. Patent 11,319,319[P]. 2022-5-3.

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