

## NLRP3-IN-55

## Chemical Properties

CAS No. :

Formula: C<sub>32</sub>H<sub>30</sub>ClFN<sub>2</sub>O<sub>4</sub>

Molecular Weight: 561.04

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-55 (Compound 19) is an effective inhibitor of NLRP3, exhibiting an inhibitory concentration (IC <sub>50</sub> ) of 0.34 μM. It targets the NLRP3 protein directly with a dissociation constant (K <sub>D</sub> ) of 0.45 μM, effectively blocking the assembly and activation of the NLRP3 inflammasome. This action results in anti-inflammatory effects and inhibits cell pyroptosis.
Targets(IC <sub>50</sub> )	NOD-like Receptor (NLR), Pyroptosis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7824 mL	8.912 mL	17.824 mL
5 mM	0.3565 mL	1.7824 mL	3.5648 mL
10 mM	0.1782 mL	0.8912 mL	1.7824 mL
50 mM	0.0356 mL	0.1782 mL	0.3565 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

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