

## NOD1 antagonist-2

## Chemical Properties

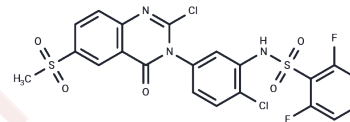
CAS No. :

Formula: C<sub>21</sub>H<sub>13</sub>Cl<sub>2</sub>F<sub>2</sub>N<sub>3</sub>O<sub>5</sub>S<sub>2</sub>

Molecular Weight: 560.378

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	NOD1 antagonist-2 (compound 66) is an orally active and selective inhibitor that can suppress NOD1 in both humans and mice. It effectively blocks the NOD1-induced NF-κB and MAPK pathways.
Targets(IC50)	NOD-like Receptor (NLR)
In vitro	NOD1 antagonist-2 (compound 66) exhibits promising antagonistic activity against h/mNOD1-induced NF-κB activation in HEK293 cells, with IC <sub>50</sub> values of 0.8 nM and 32 nM, respectively [1]. Additionally, NOD1 antagonist-2 (compound 66, 0.1, 1 μM) significantly inhibits the increase of p-RIP2, p-p65, p-p38, and p-JNK levels in THP-1 cells and bone marrow-derived macrophages (mBMDMs), demonstrating its efficacy in regulating NOD1-induced signaling pathways [1].
In vivo	NOD1 antagonist-2 (compound 66, orally) suppresses the expression of inflammatory cytokines (IL-6, TNF-α) and chemokines (CXCL1, CXCL8) in immune and epithelial cells, as well as inflammatory cytokines (KC, IL-6) in a Helicobacter pylori-induced mouse model [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7845 mL	8.9225 mL	17.845 mL
5 mM	0.3569 mL	1.7845 mL	3.569 mL
10 mM	0.1785 mL	0.8923 mL	1.7845 mL
50 mM	0.0357 mL	0.1785 mL	0.3569 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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