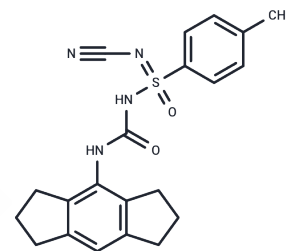


NLRP3-IN-17

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2254432-75-0 |
| Formula: | C ₂₁ H ₂₂ N ₄ O ₂ S |
| Molecular Weight: | 394.49 |
| 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-17 is a potent, selective, and orally active inhibitor of the NLRP3 inflammasome with an IC ₅₀ of 7 nM, effectively inhibiting NLRP3-dependent IL-1 β secretion in mice, making it valuable for chronic inflammatory disease research [1]. |
| Targets(IC ₅₀) | NOD-like Receptor (NLR) |
| In vivo | NLRP3-IN-17 (compound 15) administered orally at 3 mg/kg demonstrated favorable pharmacokinetic (PK) data, with an area under the curve (AUC), half-life (t _{1/2}), and bioavailability (F%) of 4.2 μ g.h/mL, 2.91 h, and 56%, respectively [1]. At a single oral dose of 10 mg/kg, it significantly inhibited NLRP3-dependent IL-1 β secretion, reducing IL-1 β levels by 44% in an acute in vivo LPS+ATP stimulation model in female C57BL/6 mice [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5349 mL | 12.6746 mL | 25.3492 mL |
| 5 mM | 0.507 mL | 2.5349 mL | 5.0698 mL |
| 10 mM | 0.2535 mL | 1.2675 mL | 2.5349 mL |
| 50 mM | 0.0507 mL | 0.2535 mL | 0.507 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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