

INF 195

Chemical Properties

CAS No. : 1211379-56-4

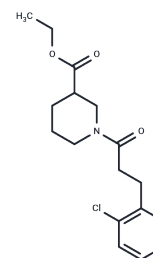
Formula: C₁₇H₂₂ClNO₃

Molecular Weight: 323.81

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | INF 195 is an inflammasome NLRP3 inhibitor that inhibits NLRP3-driven macrophage pyroptosis and IL-1 β release. INF 195 reduces isoproterenol-induced hypertrophy in H9c2 rat myoblasts and can be used to study myocardial ischemia and myocardial infarction. |
| Targets(IC50) | NOD-like Receptor (NLR),NOD,Pyroptosis,Interleukin |
| In vitro | INF 195 (0.1-100 μ M, 72 hours) was able to inhibit macrophage pyroptosis and IL-1 β release driven by NLRP3. At lower doses (5-10 μ M, 10 min), INF 195 was able to reduce the infarct zone in isolated mouse hearts and effectively prevented myocardial ischemia/reperfusion injury.INF 195 (10 μ M), as an ethyl ester precursor of the active metabolite 3-(3-(2-chlorophenyl)propanoyl)piperidine-1-carboxylic acid, was able to penetrate into H9c2 cardiomyoblasts, and hydrolyzed intracellularly to this active form. [1] |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 150 mg/mL (463.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 3.0882 mL | 15.4412 mL | 30.8823 mL |
| 5 mM | 0.6176 mL | 3.0882 mL | 6.1765 mL |
| 10 mM | 0.3088 mL | 1.5441 mL | 3.0882 mL |
| 50 mM | 0.0618 mL | 0.3088 mL | 0.6176 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.

Reference

Gastaldi S, et al. Novel NLRP3 inhibitor INF195: Low doses provide effective protection against myocardial ischemia/reperfusion injury. *Vascul Pharmacol.* 2024 Jun 17;156:107397.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481