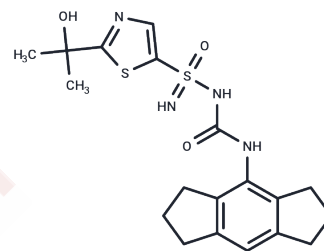


NVP-DFV890

Chemical Properties

CAS No. : 2271394-34-2
 Formula: C₁₉H₂₄N₄O₃S₂
 Molecular Weight: 420.55
 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	NVP-DFV890 is an orally active and selective NLRP3 inflammasome inhibitor that directly binds to and inhibits NLRP3 activation, thereby blocking the maturation and release of IL-1 β and IL-18 and reducing pyroptotic cell death. NVP-DFV890 has shown immunomodulatory effects in viral infection and inflammatory models and is primarily investigated in COVID-19 and acute respiratory distress syndrome to attenuate excessive inflammatory responses.
In vivo	NVP-DFV890 inhibits NLRP3-mediated secretion of IL-1 β and IL-18, as well as pyroptotic cell death, in mouse models of inflammatory mechanisms [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (190.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3778 mL	11.8892 mL	23.7784 mL
5 mM	0.4756 mL	2.3778 mL	4.7557 mL
10 mM	0.2378 mL	1.1889 mL	2.3778 mL
50 mM	0.0476 mL	0.2378 mL	0.4756 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

Madurka I, et al. DFV890: a new oral NLRP3 inhibitor-tested in an early phase 2a randomised clinical trial in patients with COVID-19 pneumonia and impaired respiratory function. *Infection*. 2023;51(3):641-654.

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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