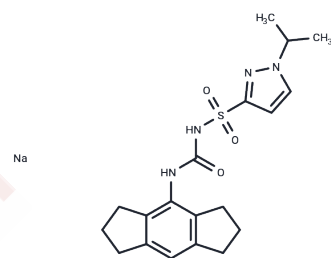


Emlenoflast sodium

Chemical Properties

CAS No. :	2380032-29-9
Formula:	C ₁₉ H ₂₄ N ₄ NaO ₃ S
Molecular Weight:	411.47
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



Biological Description

Description	Emlenoflast sodium (MCC7840 sodium), a sulfonylurea, is a selective NLRP3 inflammasome inhibitor with an IC ₅₀ value of less than 100 nM for NLRP3 inflammasome, and can be used in the study of inflammatory diseases.
Targets(IC ₅₀)	NOD-like Receptor (NLR),NOD
In vitro	Emlenoflast sodium is an MCC950 analogue that exhibits useful activity in inhibiting NLRP3 inflammasome activation with IC ₅₀ <100 nM.[1]
In vivo	Emlenoflast sodium (4 mg/kg; i.v.; Male C57BL/6 mice) showed t _{1/2} =3.39 h; AUC _{0-last} =107097 ng·h/mL; CL=0.621 mL /min/kg.[2] Emlenoflast sodium (20 mg/kg; p.o.; Male C57BL/6 mice) exhibits good oral bioavailability (67.2%), C _{max} (60467 ng/mL) and half-life (5.02 h) in mice.[2]

Solubility Information

Solubility	DMSO: 216 mg/mL (524.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 5 mg/mL (12.15 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4303 mL	12.1516 mL	24.3031 mL
5 mM	0.4861 mL	2.4303 mL	4.8606 mL
10 mM	0.243 mL	1.2152 mL	2.4303 mL
50 mM	0.0486 mL	0.243 mL	0.4861 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

- El-Sharkawy LY, et al. Inhibiting the NLRP3 Inflammasome. *Molecules*. 2020;25(23):5533.
O'neill L, et, al. Sulfonylureas and related compounds and use of same. WO2016131098A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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