Data Sheet (Cat.No.T9222L)



Emlenoflast sodium

Chemical Properties

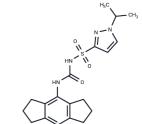
CAS No.: 2380032-29-9

Formula: C19H24N4NaO3S

Molecular Weight: 411.47

Appearance: no data available

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



Biological Description

Description	Emlenoflast sodium (MCC7840 sodium), a sulfonylurea, is a selective NLRP3 inflammasome inhibitor with an IC50 value of less than 100 nM for NLRP3 inflammasome, and can be used in the study of inflammatory diseases.
Targets(IC50)	NOD
In vitro	Emlenoflast sodium is an MCC950 analogue that exhibits useful activity in inhibiting NLRP3 inflammasome activation with IC50 <100 nM.[1]
In vivo	Emlenoflast sodium (4 mg/kg; i.v.; Male C57BL/6 mice) showed t1/2=3.39 h; AUC0-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%), Cmax (60467 ng/mL) and half-life (5.02 h) in mice.[2]

Solubility Information

Solubility	DMSO: 216.0 mg/mL (526.2 mM), Sonication is recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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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.



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