

Product Name: MCC950 sodium Revision Date: 05/06/2022

Product Data Sheet

MCC950 sodium

Cat. No.: B7946

CAS No.: 256373-96-3

Formula: C20H23N2NaO5S

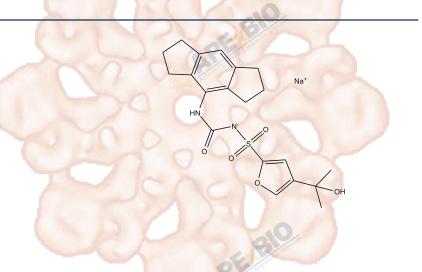
M.Wt: 426.46

Synonyms: CRID3 sodium salt

Target:

Pathway:

Storage: Store at -20° C



Solvent & Solubility

 \geqslant 124 mg/mL in H2O; \geqslant 21.45 mg/mL in DMSO; \geqslant 43 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	1 mM	2.3449 mL	11.7244 mL	23.4489 mL
	5 mM	0.4690 mL	2.3449 mL	4.6898 mL
	10 mM	0.2345 mL	1.1724 mL	2.3449 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	PotePotent NLRP3 inflammasome inhibitornt NLRP3 inflammasome inhibitor			
IC ₅₀ & Target				
In Vitro	Cell Viability Assay			
	Cell Line:	Bone marrow derived macrophages (BMDMs), human monocyte - derived		
		macrophages (HMDMs), and human peripheral blood mononuclear cells		
		(PBMCs)		
	Preparation method:			
	Reacting conditions:	$0.001 \sim 10~\mu$ M MCC950 sodium for 30 min incubation		

	Applications:	Treating cells with nanomolar concentrations of MCC950 sodium		
		dose-dependently inhibited the release of interleukin-1 β $$ (IL-1 β) in BMDMs,		
		HMDMs, and PBMCs. LPS-dependent tumor necrosis factor- α $$ (TNF- α)		
		secretion was not impaired by MCC950 sodium, which demonstrated that the		
		inhibition effect of MCC950 sodium on IL-1 β secretion was specific.		
	Animal experiment	819		
In Vivo	Animal models:	C57BL/6 mice		
	Dosage form:	10 and 50 mg/kg		
		Injected intraperitoneally (i.p.)		
	Applications:	In mice intraperitoneally injected with lipopolysaccharides (LPS), pre-treatment with MCC950 sodium (50 mg/kg, i.p., 1 h before LPS injection) reduced serum concentrations of IL-1 β and IL-6 while it did not considerably		
	DE BIO	decrease the amount of TNF- α . Furthermore, MCC950 sodium (10 mg/kg, i.p.) attenuated the severity of experimental autoimmune encephalomyelitis, a disease model of multiple sclerosis.		
	Other notes:	The technical data provided above is for reference only.		

Product Citations

- 1. Yejing Zhu, Jinyu Chi, et al. "High-dose remifentanil exacerbates myocardial ischemia-reperfusion injury through activation of calcium-sensing receptor-mediated pyroptosis." Int J Med Sci. 2023 Sep 18;20(12):1570-1583. PMID: 37859698
- 2. Jiaxin He, Jialin Cui, et al. "Astragaloside IV Attenuates High-Glucose-Induced Impairment in Diabetic Nephropathy by Increasing Klotho Expression via the NF- x B/NLRP3 Axis." J Diabetes Res. 2023 May 22:2023:7423661. PMID: 37261217

See more customer validations on www.apexbt.com.

References

1. Coll RC, Robertson AA, Chae JJ. A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. Nature Medicine, 2015, 21(3): 248-255.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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