

Store at
-20°C
#86428**MCC-950 (sodium salt)**

5 mg



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For Research Use Only. Not for Use in Diagnostic Procedures.

Background

MCC-950 (sodium salt), also known as CRID3, is a potent and selective NOD-like receptor (NLR) family pyrin domain-containing protein 3 (NLRP3) inhibitor. NLRP3 is an inflammasome-forming NLR that activates caspase-1, leading to maturation of IL-1 β and IL-18 (1). MCC-950 (sodium salt) inhibits IL-1 β production in mouse bone marrow-derived macrophage (BMDM) cells with an IC₅₀ value of 7.5 nM (2). The NLRP3 inflammasome is involved in different diseases such as Parkinson's disease (PD), multiple sclerosis (MS), type 2 diabetes, and atherosclerosis, making MCC-950 (sodium salt) an important compound when studying different autoinflammatory and autoimmune diseases (2,3).

Molecular Formula

C₂₀H₂₃N₂O₅S • Na

Molecular Weight

426.5 g/mol

Purity

>98%

CAS

256373-96-3

Solubility

Soluble in DMSO at 40 mg/ml or water at 30 mg/ml.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

MCC-950 (sodium salt) is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.17 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Franchi, L. et al. (2012) *Nat Immunol* 13, 325-32.
2. Coll, R.C. et al. (2015) *Nat Med* 21, 248-55.
3. Gordon, R. et al. (2018) *Sci Transl Med* 10, eaah4066. doi: 10.1126/scitranslmed.aah4066.

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