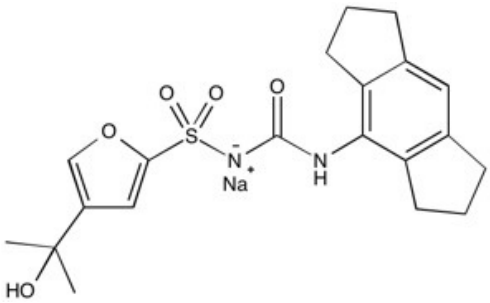
Tribioscience

MCC-950, NLRP3 inflammasome inhibitor

Catalog	Unit
TBI2990-5MG	5 mg
TBI2990-25MG	25 mg

Product Details

Formal Name: N-[[(1,2,3,5,6,7-Hexahydro-s-indacen-4-yl)amino]carbonyl]-4-(1-hydroxy-1-methylethyl)-2-furansulfonamide sodium salt
Alternate Names: CRID3; CP-456773 sodium salt
Molecular Formula: $C_{20}H_{23}N_2O_5S\ Na$
Formula Weight: 426.46
CAS Number: 256373-96-3
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 40 mg/ml) or in Water (up to 30 mg/ml).
Storage: -20°C
Stability: ≥ 1 year.



Applications

NLRP3 inflammasome inhibitor

Functions

MCC-950 was originally found to act as a cytokine release inhibitory drug (CRID), arresting activated monocytes and preventing activation of caspase-1. Discovered to be a novel inhibitor of the NLRP3 and AIM2 inflammasomes. Blocks canonical and noncanonical NLRP3 activation at nanomolar concentrations. Inhibits interleukin 1β (IL-1β) secretion in vivo and attenuates the severity of experimental autoimmune encephalomyelitis (an MS disease model). Disrupts the interaction between AIM2 and ASC in a reconstituted cell-free inflammasome. A valuable new tool for exploring the pathophysiology of NLRP.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in Water (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

For research use only.

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