Catalog # 10-2990

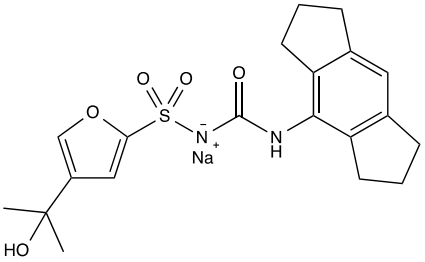
MCC-950

CAS# 256373-96-3

N-[[(1,2,3,5,6,7-Hexahydro-s-indacen-4-yl)amino]carbonyl]-4-(1-hydroxy-1-methylethyl)-2-furansulfonamide sodium salt

CRID3; CP-456773 sodium salt

Lot # X106931



MCC-950 was originally found to act as a cytokine release inhibitory drug (CRID), arresting activated monocytes and preventing activation of caspase-1[1]. Discovered to be a novel inhibitor of the NLRP3 and AIM2 inflammasomes[2]. Blocks canonical and noncanonical NLRP3 activation at nanomolar concentrations[3]. Inhibits interleukin 1β (IL-1β) secretion *in vivo* and attenuates the severity of experimental autoimmune encephalomyelitis (an MS disease model)[3]. Disrupts the interaction between AIM2 and ASC in a reconstituted cell-free inflammasome[4]. A valuable new tool for exploring the pathophysiology of NLRP3.

1) Laliberte *et al*. (2003), *Glutathione s-transferase omega 1-1 is a target of cytokine release inhibitory drugs and may be responsible for their effect on interleukin-1beta posttranslational processing*; J. Biol. Chem., **278** 16567

2) Coll *et al*. (2011), *The cytokine release inhibitory drug CRID3 targets ASC oligomerisation in the NLRP3 and AIM2 inflammasomes*; Clin. PLoS One, **6(12)** e29539

3) Coll *et al*. (2015), *A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory disease*; Nat. Med., **21** 248

4) Kaneko *et al*. (2015), *Reconstituted AIM2 inflammasome in cell-free system*; J. Immunol. Methods, **426** 76

PHYSICAL DATA

Molecular Weight:	426.46
Molecular Formula:	$C_{20}H_{23}N_2O_5S \bullet Na$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml), or Water (up to 30 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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