NEUROMICS

MCC-950 Data Sheet

Catalog Number:	MC11040	**Product Type:**	Small Molecule
Bio-Activity:	NLRP3 inflammasome inhibitor	**CAS #:**	256373-96-3
Research Categories:	Immunology, neuroscience, inflammation, ageing, neurodegeneration, atherosclerosis	**Chemical Name:**	N-[[(1,2,3,5,6,7-Hexahydro-s-indacen-4-yl)amino]carbonyl]-4-(1-hydroxy-1-methylethyl)-2-furansulfonamide sodium salt
Solubility:	Soluble in DMSO (up to 40 mg/ml) or in Water (up to 30 mg/ml).	**Molecular Formula:**	C20H23N2O5S • Na
Purity:	> 98%	**Molecular Weight:**	426.46
Format:	Powder	**Ship Temp:**	Ambient
Storage:	-20°C		

Application Notes

Description/Data:
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.

References:

1) RE Laliberte et al. J. Biol. Chem. 2003 278:16567

2) RC Coll et al. PLoS One 2011 6(12):e29539

3) RC Coll et al. Nat. Med. 2015 21:248

4) N Kaneko et al. J. Immunol. Methods 2015 426:76"6) Z Li et al. Proc. Natl. Acad. Sci. USA 2013 110:5004

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Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail: pshuster@neuromics.com