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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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NLRP3

NLRP3 inflammasome activation inhibitor
Catalog No. SIH-604



Discovery through Partnership | Excellence through Quality

Product Name

NLRP3

Description

NLRP3 inflammasome activation inhibitor

Purity

>98% (HPLC); NMR (conforms)

CAS No.

256373-96-3

Molecular Formula

$C_{20}H_{23}N_2O_5S \cdot Na$

Molecular Weight

426.5

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties**Storage Temperature**

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

May be dissolved in water (30 mg/ml); or DMSO (40 mg/ml)

Source

Synthetic

Appearance

White powder

SMILES

COC1=CC=C(C=C1)CC(=O)NC2=CC(=CC=C2)O

InChI

InChI=1S/C15H15NO3/c1-19-14-7-5-11(6-8-14)9-15(18)16-12-3-2-4-13(17)10-12/h2-8,10,17H,9H2,1H3,(H,16,18)

InChIKey

OTXSEOHBMQFDBM-UHFFFAOYSA-N

Safety Phrases

Classification: Caution: Not a hazardous substance or mixture.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Cite This Product

NLRP3 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-604)

Biological Description

Alternative Names

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

Research Areas

Cancer, Cell Signaling, Growth Factors, Neuroscience, TNF

PubChem ID

1234617

Scientific Background

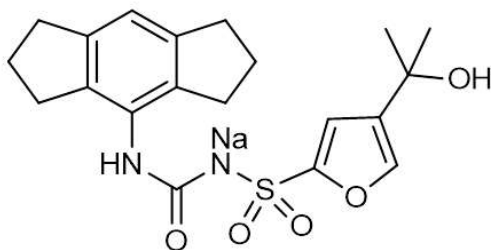
NLRP3 (MCC950) was originally found to act as a cytokine release inhibitory drug (CRID), arresting activated monocytes and preventing activation of caspase-1(1). Discovered to be a novel inhibitor of the NLRP3 and

AIM2 inflammasomes(2). Blocks canonical and noncanonical NLRP3 activation at nanomolar concentrations(3). Inhibits interleukin 1 β (IL-1 β) 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.,Laliberte R.E. et al. (2003) J. Biol. Chem. 278(19):16567-78.
 - 2.,Coll R.C., et al. (2011) PLoS One. 6(12):e29539.
 - 3.,Coll R.C., et al. (2015) Nat. Med. 21(3):248-255.
 - 4.,Kaneko N., et al. (2015) J. Immunol. Methods. 426:76-81.
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Product Images



Chemical structure of NLRP3 (SIH-604), a NLRP3 inflammasome activation inhibitor. CAS #: 256373-96-3. Molecular Formula: C₂₀H₂₃N₂O₅S · Na. Molecular Weight: 426.5 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.

