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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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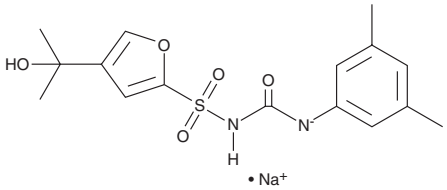
PRODUCT INFORMATION

Inflammasome Inhibitor 4b

Item No. 37030

CAS Registry No.: 2768759-64-2
Formal Name: N-[[(3,5-dimethylphenyl)amino] carbonyl]-4-(1-hydroxy-1-methylethyl)-2-furansulfonamide, monosodium salt
MF: $C_{16}H_{19}N_2O_5S \bullet Na$
FW: 374.4
Purity: ≥98%
UV/Vis.: λ_{max}: 253 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Inflammasome inhibitor 4b is supplied as a crystalline solid. A stock solution may be made by dissolving the inflammasome inhibitor 4b in the solvent of choice, which should be purged with an inert gas. Inflammasome inhibitor 4b is soluble in DMSO.

Description

Inflammasome inhibitor 4b is an inhibitor of NOD-like receptor protein 3 (NLRP3) inflammasome activation.[1] It inhibits ATP-induced IL-1β release by 98.3% in LPS-primed mouse bone marrow-derived macrophages (BMDMs) when used at a concentration of 1 µM. Inflammasome inhibitor 4b (3 and 10 mg/kg) decreases paw swelling and mechanical hyperalgesia in a mouse model of gout induced by monosodium urate crystals.

Reference

1. Narros-Fernández, P., Chioua, M., Petcu, S.A., *et al.* Synthesis and pharmacological evaluation of new *N*-sulfonylureas as NLRP3 inflammasome inhibitors: Identification of a hit compound to treat gout. *J. Med. Chem.* **65(8)**, 6250-6260 (2022).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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