

Product Data Sheet

Product Name: NLRP3-IN-17

Cat. No.: GC71230

Chemical Properties

Cas. No. 2254432-75-0

Formula $C_{21}H_{22}N_4O_2S$ M.Wt 394.49

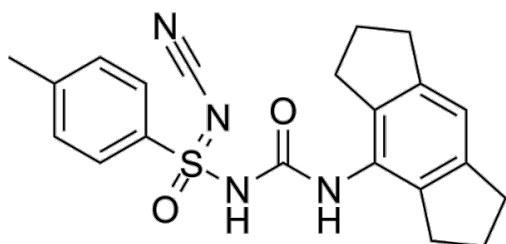
Solubility DMSO : 33.33 mg/mL (84.49 mM); ultrasonic and warming and heat to 80°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage 4°C, sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

NLRP3-IN-17 is a potent, selective and orally active NLRP3 inflammasome inhibitor with an IC₅₀ value of 7 nM. NLRP3-IN-17 significantly inhibits NLRP3 dependent IL-1 β secretion in mice and can

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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be used for chronic inflammatory diseases research.

NLRP3-IN-17 (compound 15) (3 mg/kg; po) displays desired PK profile, the AUC, $t_{1/2}$ and F% values are 4.2 $\mu\text{g}\cdot\text{h/mL}$, 2.91 h, and 56%, respectively^[1].

NLRP3-IN-17 (10 mg/kg; po; single dosage) significantly inhibit NLRP3 dependent IL-1 β secretion in acute in vivo LPS+ATPchallenged model in female C57BL/6 mice, it decreases the IL-1 β levels by 44%^[1].

References:

[1]. Sameer Agarwal, et al. Discovery of N-Cyano-sulfoximineurea Derivatives as Potent and Orally Bioavailable NLRP3 Inflammasome Inhibitors. ACS Med Chem Lett. 2020 Feb 27;11(4):414-418.

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