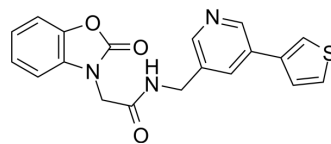


NLRP3-IN-13

Cat. No.:	HY-150206
CAS No.:	1704638-35-6
Molecular Formula:	C ₁₉ H ₁₅ N ₃ O ₃ S
Molecular Weight:	365.41
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (136.83 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.7367 mL</td> <td>13.6833 mL</td> <td>27.3665 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5473 mL</td> <td>2.7367 mL</td> <td>5.4733 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2737 mL</td> <td>1.3683 mL</td> <td>2.7367 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.7367 mL	13.6833 mL	27.3665 mL	5 mM	0.5473 mL	2.7367 mL	5.4733 mL	10 mM	0.2737 mL	1.3683 mL	2.7367 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.84 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.84 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	NLRP3-IN-13 (Compound C77 in reference patent) is a selective and potent NLRP3 inhibitor (IC ₅₀ : 2.1 μM). NLRP3-IN-13 inhibits NLRP3 and NLRC4 inflammasomes, and inhibits NLRP3-mediated IL-1β production. NLRP3-IN-13 also inhibits NLRP3 ATPase activity. NLRP3-IN-13 can be used in the research of neuroinflammatory disorders ^[1] .
IC₅₀ & Target	NLRP3

REFERENCES

[1]. Devita Robert, et al. Benzoxazolones as inhibitors of inflammasomes and their preparation. Patent. WO2022187804.

Caution: Product has not been fully validated for medical applications. For research use only.

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