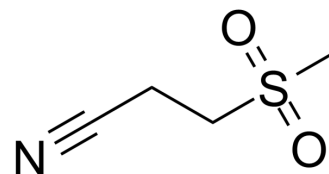


Dapansutril

Cat. No.:	HY-17629		
CAS No.:	54863-37-5		
Molecular Formula:	C ₄ H ₇ NO ₂ S		
Molecular Weight:	133.17		
Target:	NOD-like Receptor (NLR)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (938.65 mM)
 H₂O : 36.67 mg/mL (275.36 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.5092 mL	37.5460 mL	75.0920 mL
	5 mM	1.5018 mL	7.5092 mL	15.0184 mL
	10 mM	0.7509 mL	3.7546 mL	7.5092 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 120 mg/mL (901.10 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (15.62 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (15.62 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (15.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dapansutril is a potent, selective and orally active inhibitor of NLRP3 inflammasome. Anti-inflammatory, analgesic activity [1].

REFERENCES

[1]. Toldo S, et al. The NLRP3 Inflammasome Inhibitor, Dapansutrile, Reduces Infarct Size and Preserves Contractile Function After Ischemia Reperfusion Injury in the Mouse. J Cardiovasc Pharmacol. 2019 Apr;73(4):215-222.

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

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