

## Dapansutrine

## Chemical Properties

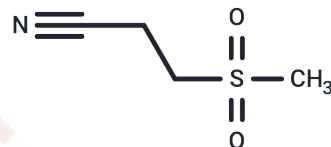
CAS No. : 54863-37-5

Formula: C<sub>4</sub>H<sub>7</sub>NO<sub>2</sub>S

Molecular Weight: 133.17

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Dapansutrine is a potent, selective and orally active NLRP3 inflammasome inhibitor, with Anti-inflammatory and analgesic activity.
Targets(IC <sub>50</sub> )	NOD-like Receptor (NLR),NOD
In vivo	Dapansutrine is a newly developed drug that is safe in humans and inhibits specifically the NLRP3 inflammasome[1].

## Solubility Information

Solubility	DMSO: 120 mg/mL (901.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.5092 mL	37.546 mL	75.092 mL
5 mM	1.5018 mL	7.5092 mL	15.0184 mL
10 mM	0.7509 mL	3.7546 mL	7.5092 mL
50 mM	0.1502 mL	0.7509 mL	1.5018 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Alba Sánchez-Fernández, Skouras D B , Dinarello C A , et al. OLT1177 (Dapansutrine), a Selective NLRP3 Inflammasome Inhibitor, Ameliorates Experimental Autoimmune Encephalomyelitis Pathogenesis[J]. Frontiers in Immunology, 2019, 10.

Tai G J, Ma Y J, Feng J L, et al. NLRP3 inflammasome-mediated premature immunosenescence drives diabetic vascular aging dependent on the induction of perivascular adipose tissue dysfunction. Cardiovascular Research. 2024: cvae079.

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286    E\_mail: info@targetmol.com    Address: 36 Washington Street, Wellesley Hills, MA 02481