Allyl methyl sulfide

Cat. No.: HY-128447

CAS No.: 10152-76-8

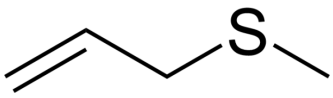
Molecular Formula: C_4H_8S

Molecular Weight: 88.17

Target: Bacterial; Endogenous Metabolite

Pathway: Anti-infection; Metabolic Enzyme/Protease

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (1134.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	11.3417 mL	56.7086 mL	113.4173 mL
	5 mM	2.2683 mL	11.3417 mL	22.6835 mL
	10 mM	1.1342 mL	5.6709 mL	11.3417 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (23.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (23.59 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (23.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Allyl methyl sulfide is a bioactive organosulfur compound found in garlic. Allyl methyl sulfide exhibits antibacterial, antioxidant and anticancer properties[1].

IC_{50} & Target

Microbial Metabolite

REFERENCES

[1]. Sujithra K, et al. Allyl methyl sulfide, an organosulfur compound alleviates hyperglycemia mediated hepatic oxidativestress and inflammation in streptozotocin - induced experimental rats. Biomed Pharmacother. 2018 Nov;107:292-302.

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