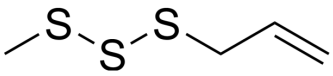
Allyl methyl trisulfide

Cat. No.:	HY-134900
CAS No.:	34135-85-8
Molecular Formula:	$C_4H_8S_3$
Molecular Weight:	152.3
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Allyl methyl trisulfide is a volatile organic compound and a component of garlic (Allium sativum L.) essential oil, which has antibacterial, antioxidant and antitumor activities[1].

In Vivo

Allyl methyl trisulfide (AMS) (50-200 mg/kg, orally, daily, 30 days) has protective effect in STZ-induced hyperglycemia rats. It can lead to a significant decrease in the expression of blood glucose and pro-inflammatory markers TNF-α, IL-6, and NF-κB p65, while increasing plasma insulin levels, and has some antioxidant activity[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (170-190 g)[1]
Dosage:	50, 100 and 200 mg/kg
Administration:	orally in the daily morning for 30 days
Result:	Enhanced body, organ weight and reduced food, water intake. Dose-dependently decreased plasma glucose and enhanced insulin. Attenuated the oxidative stress stimulated by STZ in hepatocytes. Increased activity of hepatotoxicity markers AST, ALT and ALP. Significantly downregulated the expression of pro-inflammatory proteins, cytokines (TNF-α and IL-6) and transcription factors (NF-κB p65).

REFERENCES

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA