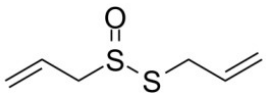
FT-BS006P

Allicin

Highly potent natural antimicrobial activity substance, inhibits growth of a variety of microorganisms, among them antibiotic-resistant strains.

Product Description



Catalog #: BS006P, 50mg
Name: **Allicin**
Diallyl thiosulfinate
CAS [539-86-6]
MW : 162.27
Formula : $C_6H_{10}OS_2$
Purity : >98 %
Solubility : DMSO : 5 mg/mL (30.81 mM; Need ultrasonic)
H_2O : < 0.1 mg/mL (insoluble)
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)
For Research Use Only

General informations

Allicin (diallyl thiosulfinate) is isolated from garlic including Diallyl monosulfide, Diallyl disulfide, Diallyl trisulfide, Diallyl tetrasulfide, and Methyl allyl disulphide etc. They accounts for 98% of the extract. Allicin (diallyl thiosulfinate) has highly potent antimicrobial activity, and inhibits growth of a variety of microorganisms, among them antibiotic-resistant strains.

In Vitro

Allicin exhibits comparable MICs (32-64 μg/mL) toward methicillin-resistant S. aureus ATCC 43300, the type strain S. aureus DSM 20231, E. coli DSM 30083, A. baumannii DSM 30007, and C. albicans DSM 1386 [1] .

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 0.5 mg/mL (3.08 mM); Clear solution

References

[1]. Rahman, et al. Allicin and Other Functional Active Components in Garlic: Health Benefits and Bioavailability [J]. International Journal of Food Properties, 2007, 10(2):245-268.

[2]. Müller A, et al. Allicin Induces Thiol Stress in Bacteria through S-Allylmercapto Modification of Protein Cysteines. J Biol Chem. 2016 May 27;291(22):11477-90.

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.
Please inquire for higher quantities (availability, shipment conditions).
Please contact InterBioTech – Interchim for any other information
Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

Disclaimer : Materials are sold **for research use only**, and are not intended for food, drug, household, or cosmetic use. Interchim® is not liable for any damage resulting from handling or contact with this product.

LIFE SCIENCES
interchim 211 bis, avenue JF Kennedy BP 1140 - 03100 Montluçon Fax +33 4 70 03 82 60 Hotline +33 4 70 03 73 06 • interbiotech@interchim.com