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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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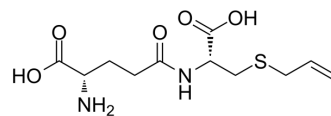
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γ-Glutamyl-S-allylcysteine

| | |
|--------------------|---|
| Cat. No.: | HY-N9413 |
| CAS No.: | 91216-95-4 |
| Molecular Formula: | C ₁₁ H ₁₈ N ₂ O ₅ S |
| Molecular Weight: | 290.34 |
| Target: | Others |
| Pathway: | Others |
| Storage: | Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year |



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

| | | | | | |
|---|--|--------------------------|--------------|------------|------------|
| In Vitro | H ₂ O : 33.33 mg/mL (114.80 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 3.4442 mL | 17.2212 mL | 34.4424 mL |
| | | 5 mM | 0.6888 mL | 3.4442 mL | 6.8885 mL |
| 10 mM | | 0.3444 mL | 1.7221 mL | 3.4442 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: PBS Solubility: 25 mg/mL (86.11 mM); Clear solution; Need ultrasonic and warming and heat to 60°C | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|--|
| Description | γ-Glutamyl-S-allylcysteine (L-γ-Glutamyl-(S)-Allyl-Cysteine) is a naturally occurring organosulfur compound found in garlic. γ-Glutamyl-S-allylcysteine has antiglycative effect and shows radical-scavenging and metal-chelating capacities ^{[1][2]} . |
| In Vitro | <p>γ-Glutamyl-S-allylcysteine (L-γ-Glutamyl-(S)-Allyl-Cysteine; 0.1-2.5 mg/mL) inhibits the increase of fluorescence intensity at about 440 nm in a concentration-dependent manner and reduces reacted free lysine side chains^[1].</p> <p>γ-Glutamyl-S-allylcysteine (2.5 mg/mL) prevents Glycation-specific decline in BSA α-helix content and increase in β-sheet in vitro^[1].</p> <p>γ-Glutamyl-S-allylcysteine (2.5 mg/mL) suppresses protein crosslinking to form polymers^[1].</p> <p>γ-Glutamyl-S-allylcysteine (10, 40, 160 μg/mL) shows radical-scavenging and metal-chelating capacities^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

REFERENCES

- [1]. Yi-Yu Chen, et al. Enzymatic synthesis of γ -L-glutamyl-S-allyl-L-cysteine, a naturally occurring organosulfur compound from garlic, by *Bacillus licheniformis* γ -glutamyltranspeptidase. *Enzyme Microb Technol.* Jul-Aug 2015;75-76:18-24.
- [2]. Dehong Tan, et al. Decreased glycation and structural protection properties of γ -glutamyl-S-allyl-cysteine peptide isolated from fresh garlic scales (*Allium sativum* L.). *Nat Prod Res.* 2015;29(23):2219-22.
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Caution: Product has not been fully validated for medical applications. For research use only.

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