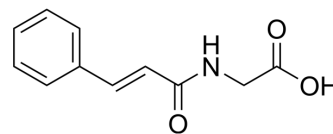


Cinnamoylglycine

| | | | |
|--------------------|---|-------|---------|
| Cat. No.: | HY-77641 | | |
| CAS No.: | 16534-24-0 | | |
| Molecular Formula: | C ₁₁ H ₁₁ NO ₃ | | |
| Molecular Weight: | 205.21 | | |
| Target: | Endogenous Metabolite | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 2 years |
| | | -20°C | 1 year |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (48.73 mM; Need ultrasonic)
 H₂O : 1 mg/mL (4.87 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 4.8731 mL | 24.3653 mL | 48.7306 mL |
| | 5 mM | 0.9746 mL | 4.8731 mL | 9.7461 mL |
| | 10 mM | 0.4873 mL | 2.4365 mL | 4.8731 mL |

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (4.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (4.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1 mg/mL (4.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cinnamoylglycine is a glycine conjugate of cinnamic acid and a urinary metabolite in human. Cinnamoylglycine is used as a potential urinary biomarker indicating intact or disrupted colonization resistance during and after antibiotic treatment^[1].

IC₅₀ & Target

Microbial Metabolite

Human Endogenous Metabolite

REFERENCES

[1]. Obrenovich ME, et al. Targeted Metabolomics Analysis Identifies Intestinal Microbiota-Derived Urinary Biomarkers of Colonization Resistance in Antibiotic-Treated Mice. *Antimicrob Agents Chemother.* 2017 Jul 25;61(8). pii: e00477-17.

Caution: Product has not been fully validated for medical applications. For research use only.

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