



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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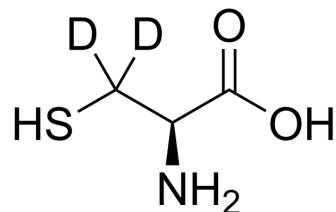
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L-Cysteine-d₂

| | | |
|---------------------------|--|---------------------------------|
| Cat. No.: | HY-Y0337S6 | |
| CAS No.: | 130633-02-2 | |
| Molecular Formula: | C ₃ H ₃ D ₂ NO ₂ S | |
| Molecular Weight: | 123.17 | |
| Target: | Endogenous Metabolite; Isotope-Labeled Compounds | |
| Pathway: | Metabolic Enzyme/Protease; Others | |
| Storage: | Powder | -20°C 3 years 4°C 2 years |
| | In solvent | -80°C 6 months -20°C 1 month |



SOLVENT & SOLUBILITY

In Vitro

H₂O : 16.67 mg/mL (135.34 mM; ultrasonic and adjust pH to 2 with 1M HCl)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 8.1189 mL | 40.5943 mL | 81.1886 mL |
| | 5 mM | 1.6238 mL | 8.1189 mL | 16.2377 mL |
| | 10 mM | 0.8119 mL | 4.0594 mL | 8.1189 mL |

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

BIOLOGICAL ACTIVITY

Description

L-Cysteine-d₂ is the deuterium labeled L-Cysteine. L-Cysteine is a conditionally essential amino acid, which acts as a precursor for biologically active molecules such as hydrogen sulphide (H₂S), glutathione and taurine. L-Cysteine suppresses ghrelin and reduces appetite in rodents and humans[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

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

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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