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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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D-Cysteine

Cat. No.: HY-W018555

CAS No.: 921-01-7

Molecular Formula: $C_3H_7NO_2S$

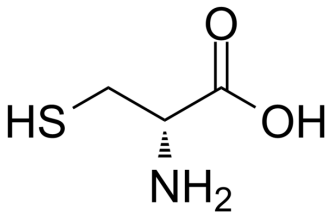
Molecular Weight: 121

Target: Endogenous Metabolite; Bacterial

Pathway: Metabolic Enzyme/Protease; Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 1 mg/mL (8.26 mM; ultrasonic and warming and heat to 60°C)

DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	8.2645 mL	41.3223 mL	82.6446 mL
5 mM	1.6529 mL	8.2645 mL	16.5289 mL
10 mM	---	---	---

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 7.69 mg/mL (63.55 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description

D-Cysteine is the D-isomer of cysteine and a powerful inhibitor of ***Escherichia coli*** growth. D-cysteine is mediated by D-amino acid oxidase to produce H_2S and is a neuroprotectant against cerebellar ataxias. D-Cysteine could inhibit the growth and cariogenic virulence of dual-species biofilms formed by ***S. mutans*** and ***S. sanguinis***[1][2][3].

IC_{50} & Target

Human Endogenous Metabolite

REFERENCES

[1]. Seki T. Availability of D-cysteine as a protectant for cerebellar neurons. Nihon Yakurigaku Zasshi. 2019;154(3):133-137.

[2]. Soutourina J, et al. Role of D-cysteine desulfhydrase in the adaptation of Escherichia coli to D-cysteine. J Biol Chem. 2001 Nov 2;276(44):40864-72.

[3]. Guo X1, et al. Effect of D-cysteine on dual-species biofilms of Streptococcus mutans and Streptococcus sanguinis. Sci Rep. 2019 Apr 30;9(1):6689.

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