

Product Data Sheet

Product Name: D-Cystine

Cat. No.: GC61713

Chemical Properties

Cas. No. 349-46-2

SMILES OC([C@H](N)CSSC[C@@H](N)C(O)=O)=O

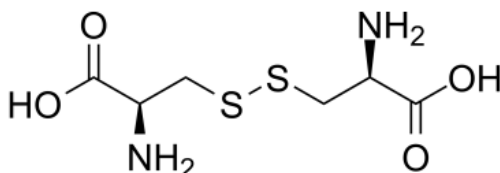
Formula $C_6H_{12}N_2O_4S_2$ M.Wt 240.3

Solubility DMSO : < 1 mg/mL (insoluble or slightly soluble) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



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

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Background

D-Cystine is the D-enantiomer of L-Cystine. D-Cystine inhibits L-aspartate- β -semialdehyde dehydrogenase (ASADH) from *Escherichia coli*[1].

[1]. Emilio Alvarez, et al. L-cystine inhibits aspartate-beta-semialdehyde dehydrogenase by covalently binding to the essential 135Cys of the enzyme. *Biochim Biophys Acta*. 2004 Jan 14;1696(1):23-9.

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