# Data Sheet (Cat.No.T40433)



## **D-Cystine**

### **Chemical Properties**

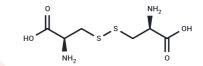
CAS No.: 349-46-2

Formula: C6H12N2O4S2

Molecular Weight: 240.3

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



# **Biological Description**

Description	D-Cystine, the D-enantiomer of L-Cystine, functions as an inhibitor of L-aspartate- $\beta$ -
	semialdehyde dehydrogenase (ASADH) derived from Escherichia coli.

# **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	4.1615 mL	20.8073 mL	41.6146 mL
5 mM	0.8323 mL	4.1615 mL	8.3229 mL
10 mM	0.4161 mL	2.0807 mL	4.1615 mL
50 mM	0.0832 mL	0.4161 mL	0.8323 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

#### Reference

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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