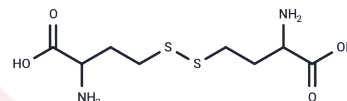


## 4,4'-Disulfanediybis(2-aminobutanoic acid)

## Chemical Properties

CAS No. :	462-10-2
Formula:	C <sub>8</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
Molecular Weight:	268.35
Appearance:	Solid
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	4,4'-Disulfanediybis(2-aminobutanoic acid) (DL-Homocystine) is the double-bonded form of homocysteine that occurs transiently before being converted to harmless cystathionine via a vitamin B6-dependent enzyme. Homocystine and homocysteine-cysteine mixed disulfide account for over 98% of total homocysteine in plasma from healthy individuals.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: Slightly soluble, H <sub>2</sub> O: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7265 mL	18.6324 mL	37.2648 mL
5 mM	0.7453 mL	3.7265 mL	7.453 mL
10 mM	0.3726 mL	1.8632 mL	3.7265 mL
50 mM	0.0745 mL	0.3726 mL	0.7453 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

Sengupta S, et al. Relative roles of albumin and ceruloplasmin in the formation of homocystine, homocysteine-cysteine-mixed disulfide, and cystine in circulation. J Biol Chem. 2001 Dec 14;276(50):46896-904.

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