L-Cystathionine dihydrochloride

Cat. No.: HY-W009749C

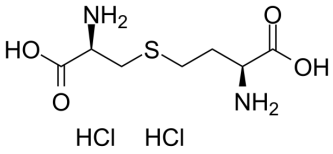
Molecular Formula: $C_7H_{16}Cl_2N_2O_4S$

Molecular Weight: 295

Target: Endogenous Metabolite; Apoptosis

Pathway: Metabolic Enzyme/Protease; Apoptosis

Storage: -20°C, stored under nitrogen, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (423.73 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	3.3898 mL	16.9492 mL	33.8983 mL
	5 mM	0.6780 mL	3.3898 mL	6.7797 mL
	10 mM	0.3390 mL	1.6949 mL	3.3898 mL

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

BIOLOGICAL ACTIVITY

Description

L-Cystathionine (dihydrochloride) is a nonprotein thioether and is a key amino acid associated with the metabolic state of sulfur-containing amino acids. L-Cystathionine (dihydrochloride) protects against Homocysteine-induced mitochondria-dependent apoptosis of vascular endothelial cells (HUVECs). L-Cystathionine (dihydrochloride) plays an important role in cardiovascular protection[1][2].

REFERENCES

[1]. Wang X, et al. L-Cystathionine Protects againstHomocysteine-Induced Mitochondria-Dependent Apoptosis of Vascular EndothelialCells. Oxid Med Cell Longev. 2019;2019:1253289.

[2]. Amino Y, et al. Synthesis and evaluation ofL-cystathionine as a standard for amino acid analysis. Biosci BiotechnolBiochem. 2017;81(1):95-101.

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

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