Data Sheet (Cat.No.TN5283)

TargetMol

L-Cysteine hydrochloride hydrate

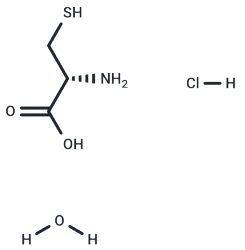
Chemical Properties

CAS No. : 7048-04-6

Formula: C3H10ClNO3S

Molecular Weight: 175.64

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	L-Cysteine hydrochloride hydrate (L-Cysteine hydrochloride monohydrate) is a conditionally essential amino acid, which acts as a precursor for biologically active molecules such as hydrogen sulphide (H2S), taurine and glutathione. L-Cysteine hydrochloride hydrate suppresses ghrelin and reduces appetite in rodents and humans.
Targets(IC50)	NF-κB,Endogenous Metabolite,IGF-1R

Solubility Information

Solubility	DMSO: 30 mg/mL (170.8 mM),Sonication is recommended. H2O: 20 mg/mL (113.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6935 mL	28.4673 mL	56.9346 mL
5 mM	1.1387 mL	5.6935 mL	11.3869 mL
10 mM	0.5693 mL	2.8467 mL	5.6935 mL
50 mM	0.1139 mL	0.5693 mL	1.1387 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

McGavigan AK, O'Hara HC, Amin A, et al. L-cysteine suppresses ghrelin and reduces appetite in rodents and humans. Int J Obes (Lond). 2015;39(3):447-455. doi:10.1038/ijo.2014.172

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