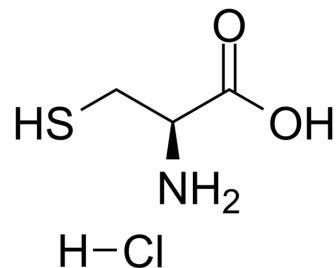


## L-Cysteine hydrochloride

Cat. No.:	HY-Y0337A
CAS No.:	52-89-1
Molecular Formula:	C <sub>3</sub> H <sub>8</sub> ClNO <sub>2</sub> S
Molecular Weight:	157.62
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (634.44 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	6.3444 mL	31.7219 mL	63.4437 mL
		5 mM	1.2689 mL	6.3444 mL	12.6887 mL
	10 mM	0.6344 mL	3.1722 mL	6.3444 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (158.61 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	L-Cysteine hydrochloride is a conditionally essential amino acid, which acts as a precursor for biologically active molecules such as hydrogen sulphide (H <sub>2</sub> S), glutathione and taurine. L-Cysteine hydrochloride suppresses ghrelin and reduces appetite in rodents and humans <sup>[1]</sup> .	
IC <sub>50</sub> & Target	Human Endogenous Metabolite	Microbial Metabolite

### CUSTOMER VALIDATION

- Int J Biol Sci. 2023 Aug 21.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[1]. McGavigan AK, et al. L-cysteine suppresses ghrelin and reduces appetite in rodents and humans. *Int J Obes (Lond)*. 2015 Mar;39(3):447-55.

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

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