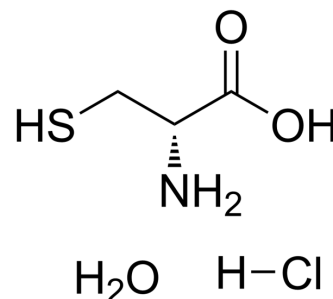


## D-Cysteine hydrochloride hydrate

Cat. No.:	HY-W055811
CAS No.:	207121-46-8
Molecular Formula:	C <sub>3</sub> H <sub>10</sub> ClNO <sub>3</sub> S
Molecular Weight:	175.63
Target:	Amino Acid Derivatives
Pathway:	Others
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	DMSO : 100 mg/mL (569.38 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM	5.6938 mL	28.4689 mL	56.9379 mL	
		5 mM	1.1388 mL	5.6938 mL	11.3876 mL	
		10 mM	0.5694 mL	2.8469 mL	5.6938 mL	
Please refer to the solubility information to select the appropriate solvent.						

### BIOLOGICAL ACTIVITY

Description	D-Cysteine hydrochloride hydrate is a cysteine derivative <sup>[1]</sup> .
In Vitro	Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-807.

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

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