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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

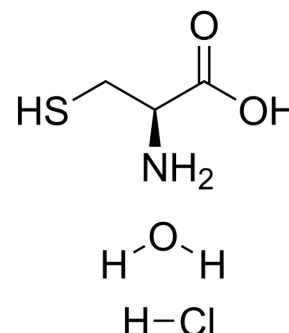
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

L-Cysteine hydrochloride hydrate

Cat. No.:	HY-W016715
CAS No.:	7048-04-6
Molecular Formula:	C ₃ H ₁₀ ClNO ₃ S
Molecular Weight:	175.63
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	DMSO : 100 mg/mL (569.38 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration 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.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.23 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.23 mM); Clear solution				

BIOLOGICAL ACTIVITY

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

CUSTOMER VALIDATION

- Int J Biol Sci. 2023 Aug 21.

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- Amino Acids. 2024 Sep 18;56(1):56.
 - Research Square Preprint. 2024 Jan 24.
 - SSRN. 2023 Nov 17.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA