



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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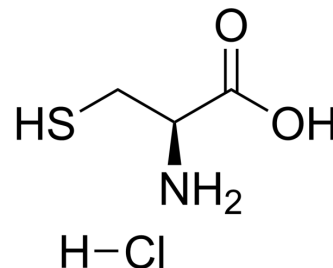
[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## L-Cysteine (hydrochloride) (Standard)

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-Y0337AR                                                                                |
| 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:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

L-Cysteine (hydrochloride) (Standard) is the analytical standard of L-Cysteine (hydrochloride). This product is intended for research and analytical applications. L-Cysteine hydrochloride is an orally active 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. L-Cysteine hydrochloride inhibits *Aspergillus flavus* growth and AFB synthesis by disrupting cell structure and antioxidant system balance. L-Cysteine hydrochloride enhances relaxant responses of rat aortic rings to NO and reduces responses to endothelium-derived relaxing factor (EDRF)<sup>[1][2][3][4]</sup>.

### 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.
- [2]. Qiu M, et al. L-Cysteine hydrochloride inhibits *Aspergillus flavus* growth and AFB1 synthesis by disrupting cell structure and antioxidant system balance. *J Hazard Mater*. 2023 Oct 5;459:132218.
- [3]. Ellis A, et al. Differential actions of L-cysteine on responses to nitric oxide, nitroxyl anions and EDRF in the rat aorta. *Br J Pharmacol*. 2000 Jan;129(2):315-22.
- [4]. Li T, et al. L-Cysteine hydrochloride delays senescence of harvested longan fruit in relation to modification of redox status[J].

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

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