



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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

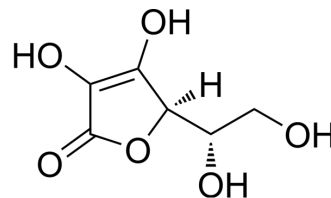
mail@szabo-scandic.com

www.szabo-scandic.com

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

L-Ascorbic acid (Standard)

Cat. No.:	HY-B0166R
CAS No.:	50-81-7
Molecular Formula:	C ₆ H ₈ O ₆
Molecular Weight:	176.12
Target:	Endogenous Metabolite; Apoptosis; Reactive Oxygen Species; Calcium Channel
Pathway:	Metabolic Enzyme/Protease; Apoptosis; Immunology/Inflammation; NF-κB; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

L-Ascorbic acid (Standard) is the analytical standard of L-Ascorbic acid. This product is intended for research and analytical applications. L-Ascorbic acid (L-Ascorbate), an electron donor, is an endogenous antioxidant agent. L-Ascorbic acid inhibits selectively Ca_v3.2 channels with an IC₅₀ of 6.5 μM. L-Ascorbic acid is also a collagen deposition enhancer and an elastogenesis inhibitor^{[1][2][3]}. L-Ascorbic acid exhibits anti-cancer effects through the generation of reactive oxygen species (ROS) and selective damage to cancer cells^[4].

REFERENCES

- [1]. Sebastian J Padayatty, et al. Vitamin C as an antioxidant: evaluation of its role in disease prevention. *J Am Coll Nutr.* 2003 Feb;22(1):18-35.
- [2]. Michael T Nelson, et al. Molecular mechanisms of subtype-specific inhibition of neuronal T-type calcium channels by ascorbate. *J Neurosci.* 2007 Nov 14;27(46):12577-83.
- [3]. Aleksander Hinek, et al. Sodium L-ascorbate enhances elastic fibers deposition by fibroblasts from normal and pathologic human skin. *J Dermatol Sci.* 2014 Sep;75(3):173-82.
- [4]. Sungrae Cho, et al. Hormetic dose response to L-ascorbic acid as an anti-cancer drug in colorectal cancer cell lines according to SVCT-2 expression. *Sci Rep.* 2018 Jul 27;8(1):11372.
- [5]. Satyanarayana Sreemantula, et al. Influence of antioxidant (L- ascorbic acid) on tolbutamide induced hypoglycaemia/antihyperglycaemia in normal and diabetic rats. *BMC Endocr Disord.* 2005 Mar 3;5(1):2.

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