



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

Quellenstraße 110, A-1100 Wien

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

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

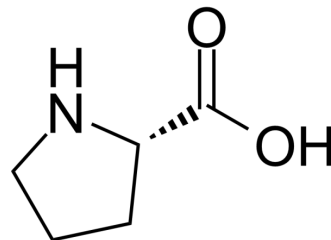
mail@szabo-scandic.com

www.szabo-scandic.com

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

L-Proline (Standard)

Cat. No.:	HY-Y0252R
CAS No.:	147-85-3
Molecular Formula:	C ₅ H ₉ NO ₂
Molecular Weight:	115.13
Target:	Endogenous Metabolite; mTOR; Apoptosis
Pathway:	Metabolic Enzyme/Protease; PI3K/Akt/mTOR; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Proline (Standard) is the analytical standard of L-Proline. This product is intended for research and analytical applications. L-Proline is one of the twenty amino acids used in living organisms as the building blocks of proteins.								
In Vitro	L-Proline standard (1 g/L, 48 h) inhibits AFB1- or AFM1-induced apoptosis through downregulation of PRODH expression and its downstream apoptotic factors (Bax, Bcl-2 and cleaved Caspase-3)^[1]. L-Proline standard (40-400 μM, 4 days) activates the mTOR signaling pathway, induces the differentiation of mouse embryonic stem cells (ES cells)^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis^[1] <table> <tr> <td>Cell Line:</td><td>HEK293</td></tr> <tr> <td>Concentration:</td><td>1 g/L</td></tr> <tr> <td>Incubation Time:</td><td>48 h</td></tr> <tr> <td>Result:</td><td>Inhibited AFB1- or AFM1-induced apoptosis.</td></tr> </table>	Cell Line:	HEK293	Concentration:	1 g/L	Incubation Time:	48 h	Result:	Inhibited AFB1- or AFM1-induced apoptosis.
Cell Line:	HEK293								
Concentration:	1 g/L								
Incubation Time:	48 h								
Result:	Inhibited AFB1- or AFM1-induced apoptosis.								
In Vivo	L-Proline standard (10 g/kg, po for 28 days) exhibits protective effect against renal oxidative damage and dysfunction caused by AFB1 and AFM1^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. <table> <tr> <td>Animal Model:</td><td>CD-1 mouse AFB1 and AFM1 induced kidney damage model^[1]</td></tr> <tr> <td>Dosage:</td><td>10 g/kg</td></tr> <tr> <td>Administration:</td><td>po for 28 days</td></tr> <tr> <td>Result:</td><td>Ameliorated AFB1 and AFM1 induced renal oxidative damage and dysfunction.</td></tr> </table>	Animal Model:	CD-1 mouse AFB1 and AFM1 induced kidney damage model ^[1]	Dosage:	10 g/kg	Administration:	po for 28 days	Result:	Ameliorated AFB1 and AFM1 induced renal oxidative damage and dysfunction.
Animal Model:	CD-1 mouse AFB1 and AFM1 induced kidney damage model ^[1]								
Dosage:	10 g/kg								
Administration:	po for 28 days								
Result:	Ameliorated AFB1 and AFM1 induced renal oxidative damage and dysfunction.								

REFERENCES

-
- [1]. Li H, et al., L-Proline Alleviates Kidney Injury Caused by AFB1 and AFM1 through Regulating Excessive Apoptosis of Kidney Cells. *Toxins (Basel)*. 2019 Apr 16;11(4):226.
- [2]. Washington JM, et al., L-Proline induces differentiation of ES cells: a novel role for an amino acid in the regulation of pluripotent cells in culture. *Am J Physiol Cell Physiol*. 2010 May;298(5):C982-92.
-

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