



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) 

PRODUCT INFORMATION



Spinosin

Item No. 40216

CAS Registry No.: 72063-39-9
Formal Name: 6-(2-O-β-D-glucopyranosyl-β-D-glucopyranosyl)-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4H-1-benzopyran-4-one

Synonym: Flavoayamenin

MF: C₂₈H₃₂O₁₅

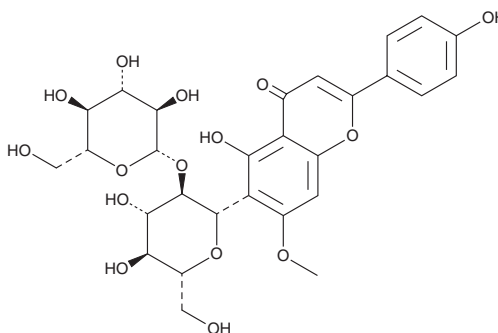
FW: 608.6

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Spinosin is supplied as a solid. A stock solution may be made by dissolving the spinosin in the solvent of choice, which should be purged with an inert gas. Spinosin is soluble in methanol and DMSO.

Description

Spinosin is a C-glycoside flavonoid that has been found in *Z. spinosa* and has diverse biological activities.¹⁻⁴ It reduces the production of reactive oxygen species (ROS) induced by hydrogen peroxide (H₂O₂) in Neuro2a cells when used at a concentration of 25 μM.² It also reduces H₂O₂-induced activation of p38 MAPK, increases in amyloid-β (1-42) (Aβ₄₂) levels, and phosphorylation of tau at serine 396 (Ser³⁹⁶), but not Ser¹⁹⁹ or Ser²⁰², in Neuro2a cells. Spinosin increases the percentage of time spent on the open arms of the elevated plus maze in mice when administered at doses of 2.5 and 5 mg/kg.³ It also reverses scopolamine-induced decreases in the time spent in the target quadrant of the Morris water maze in mice at 10 and 20 mg/kg.⁴ Spinosin prolongs pentobarbital-induced sleeping time in unstressed mice at 100 mg/kg and cold-stressed mice at 50 mg/kg.¹

References

1. Kawashima, K., Miyako, D., Saito, K.-I., *et al.* Interaction between 3,4,5-trimethoxycinnamic acid and spinosin on pentobarbital-induced sleeping time in mice. *J. Trad. Med.* **20**, 220 (2003).
2. Xu, F., Zhang, X., Wang, J., *et al.* Spinosin protects N2a cells from H₂O₂-induced neurotoxicity through inactivation of p38MAPK. *J. Pharm. Pharmacol.* **72(11)**, 1607-1614 (2020).
3. Liu, J., Zhai, W.M., Yang, Y.X., *et al.* GABA and 5-HT systems are implicated in the anxiolytic-like effect of spinosin in mice. *Pharmacol. Biochem. Behav.* **128**, 41-49 (2015).
4. Jung, I.H., Lee, H.E., Park, S.J., *et al.* Ameliorating effect of spinosin, a C-glycoside flavonoid, on scopolamine-induced memory impairment in mice. *Pharmacol. Biochem. Behav.* **120**, 88-94 (2014).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/14/2024

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM