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

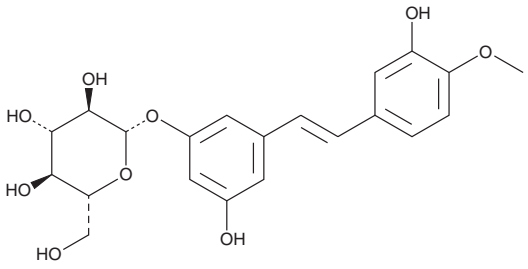
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Rhapontin

Item No. 19867

CAS Registry No.: 155-58-8
Formal Name: 3-hydroxy-5-[(1E)-2-(3-hydroxy-4-methoxyphenyl)ethenyl]phenyl-β-D-glucopyranoside
Synonyms: NSC 43321, Rhaponticin, *trans*-Rhapontin
MF: $C_{21}H_{24}O_9$
FW: 420.4
Purity: ≥98%
UV/Vis.: λ_{max}: 220, 325 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Rhapontin is supplied as a crystalline solid. A stock solution may be made by dissolving the rhapontin in the solvent of choice. Rhapontin is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of rhapontin in these solvents is approximately 30 and 50 mg/ml, respectively.

Rhapontin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, rhapontin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Rhapontin has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Rhapontin is a natural stilbenoid glycoside first isolated from rhubarb rhizomes. It is converted by glucosidases to rhapontigenin (Item No. 13293), a resveratrol analog with antioxidant and anti-cancer activity.[1-3] Rhapontigenin derived enzymatically from rhapontin has also been found to have antibiotic activity as well as inhibit melanin synthesis.[4,5]

References

1. Chun, Y. J., Ryu, S. Y., Jeong, T. C., *et al.* Mechanism-based inhibition of human cytochrome P450 1A1 by rhapontigenin. *Drug Metab. Dispos.* **29(4)**, 389-393 (2001).
2. Roupe, K. A., Helms, G. L., Halls, S. C., *et al.* Preparative enzymatic synthesis and HPLC analysis of rhapontigenin: Applications to metabolism, pharmacokinetics and anti-cancer studies. *J. Pharm. Pharm. Sci.* **8(3)**, 374-386 (2005).
3. Roberti, M., Pizzirani, D., Simoni, D., *et al.* Synthesis and biological evaluation of resveratrol and analogues as apoptosis-inducing agents. *J. Med. Chem.* **46**, 3546-3554 (2003).
4. Kim, J. K., Kim, N., and Lim, Y. H., Evaluation of the antibacterial activity of rhapontigenin produced from rhapontin by biotransformation against *Propionibacterium* acnes. *J. Microbiol. Biotechnol.* **20(1)**, 82-87 (2010).
5. Lee, H. S., Kim, J. K., Park, K. T., *et al.* Rhapontigenin converted from rhapontin purified from *Rheum undulatum* enhances the inhibition of melanin synthesis. *Biosci. Biotechnol. Biochem.* **76(12)**, 2307-2309 (2012).

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