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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Jaceosidin

Item No. 19758

CAS Registry No.: 18085-97-7
Formal Name: 5,7-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-6-methoxy-4H-1-benzopyran-4-one

MF: C₁₇H₁₄O₇

FW: 330.3

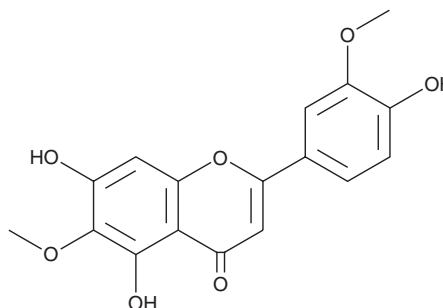
Purity: ≥98%

UV/Vis.: λ_{max}: 215, 275, 346 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

Jaceosidin is supplied as a crystalline solid. A stock solution may be made by dissolving the jaceosidin in the solvent of choice. Jaceosidin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of jaceosidin in ethanol is approximately 0.2 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

Jaceosidin is a natural methylated trihydroxyflavone first isolated from plants of the Compositae family. Like many flavones, jaceosidin has antioxidative actions on cells in culture.¹ It induces cell cycle arrest and apoptosis in cancer cells, suggesting potential roles in cancer therapy.²⁻⁴ Jaceosidin also blocks cell signaling related to inflammation, including activation of NF-κB and induced expression of cyclooxygenase 1, inducible nitric oxide synthase, and matrix metalloproteinase-9.^{1,5}

References

1. Kim, M.-J., Han, J.-M., Jin, Y.-Y., *et al.* *In vitro* antioxidant and anti-inflammatory activities of Jaceosidin from *Artemisia princeps* Pampanini cv. Sajabal. *Arch. Pharm. Res.* **31(4)**, 42-437 (2008).
2. Lee, J.-G., Kim, J.-H., Ahn, J.-H., *et al.* Jaceosidin, isolated from dietary mugwort (*Artemisia princeps*), induces G2/M cell cycle arrest by inactivating cdc25C-cdc2 via ATM-Chk1/2 activation. *Food Chem. Toxicol.* **55**, 214-221 (2013).
3. Lv, W., Sheng, X., Chen, T., *et al.* Jaceosidin induces apoptosis in human ovary cancer cells through mitochondrial pathway. *J. Biomed. Biotechnol.* 394802 (2008).
4. Woo, S.M., and Kwon, T.K. Jaceosidin induces apoptosis through Bax activation and down-regulation of Mcl-1 and c-FLIP expression in human renal carcinoma Caki cells. *Chem. Biol. Interact.* **260**, 168-175 (2016).
5. Jeong, M.A., Lee, K.W., Yoon, D.-Y., *et al.* Jaceosidin, a pharmacologically active flavone derived from *Artemisia argyi*, inhibits phorbol-ester-induced upregulation of COX-2 and MMP-9 by blocking phosphorylation of ERK-1 and -2 in cultured human mammary epithelial cells. *Ann. N.Y. Acad. Sci.* **1095**, 458-466 (2007).

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.

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