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Diagnostik & molekulare Diagnostik



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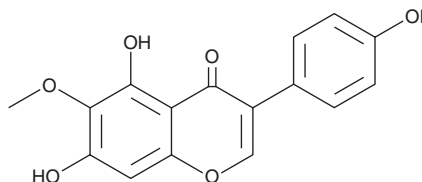
PRODUCT INFORMATION



Tectorigenin

Item No. 35860

CAS Registry No.: 548-77-6
Formal Name: 5,7-dihydroxy-3-(4-hydroxyphenyl)-6-methoxy-4H-1-benzopyran-4-one
Synonym: Tectorigenine
MF: C₁₆H₁₂O₆
FW: 300.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Plant/*Belamcanda chinensis*



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

Laboratory Procedures

Tectorigenin is supplied as a solid. A stock solution may be made by dissolving the tectorigenin in the solvent of choice, which should be purged with an inert gas. Tectorigenin is soluble in acetonitrile.

Description

Tectorigenin is an isoflavonoid that has been found in *B. chinensis* and has diverse biological activities and is an active metabolite of the flavonoid glycoside and phytoestrogen tectoridin (Item No. 33969).¹⁻⁵ It is formed from tectoridin by gut microbiota.¹ Tectorigenin scavenges hydroxyl and superoxide radicals in cell-free assays (IC₅₀s = 87 and 46.62 µg/ml, respectively) and inhibits the formation of thiobarbituric acid reactive substances (TBARS) in egg yolk (IC₅₀ = 23 µg/ml).³ It inhibits the production of prostaglandin E₂ (PGE₂; Item No. 14010) induced by the PKC activator 12-O-tetradecanoylphorbol 13-acetate (TPA; Item No. 10008014) or the sarcoplasmic/endoplasmic reticulum Ca²⁺-ATPase (SERCA) and endoplasmic reticulum (ER) stress inducer thapsigargin (Item No. 10522) in isolated rat peritoneal macrophages when used at concentrations of 3, 10, or 30 µM.³ Tectorigenin (10 µg/ml) reduces cell death induced by hydrogen peroxide (H₂O₂) and increases catalase levels and activity in V79-4 Chinese hamster lung fibroblasts.⁴ *In vivo*, tectorigenin (100 mg/kg per day) prevents increases in hepatic levels of malondialdehyde (MDA) and blood levels of alanine transaminase (ALT) and aspartate aminotransferase (AST) and decreases in hepatic superoxide dismutase (SOD), catalase, and glutathione peroxidase (GPX) activities in a rat model of liver injury induced by carbon tetrachloride (CCl₄).⁵

References

1. Chen, Y., Song, W., Peng, Z.H., *et al.* Identification of metabolites of tectoridin in-vivo and in-vitro by liquid chromatography-tandem mass spectrometry. *J. Pharm. Pharmacol.* **60**(6), 709-716 (2008).
2. Han, T., Cheng, G., Liu, Y., *et al.* *In vitro* evaluation of tectoridin, tectorigenin and tectorigenin sodium sulfonate on antioxidant properties. *Food Chem. Toxicol.* **50**(2), 409-414 (2012).
3. Kim, Y.P., Yamada, M., Lim, S.S., *et al.* Inhibition by tectorigenin and tectoridin of prostaglandin E₂ production and cyclooxygenase-2 induction in rat peritoneal macrophages. *Biochim. Biophys. Acta* **1438**(3), 399-407 (1999).
4. Zhang, R., Piao, M.J., Oh, M.C., *et al.* Protective effect of an isoflavone, tectorigenin, against oxidative stress-induced cell death via catalase activation. *J. Cancer Prev.* **21**(4), 257-263 (2016).
5. Jung, S.H., Lee, Y.S., Lim, S.S., *et al.* Antioxidant activities of isoflavones from the rhizomes of *Belamcanda chinensis* on carbon tetrachloride-induced hepatic injury in rats. *Arch. Pharm. Res.* **27**(2), 184-188 (2004).

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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