PRODUCT INFORMATION



Myricetrin

Item No. 26902

CAS Registry No.: 17912-87-7

Formal Name: 3-[(6-deoxy-α-L-mannopyranosyl)oxy]-

5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-

4H-1-benzopyran-4-one

Synonyms: Myricitrin, Myricitrine, Myricitroside,

NSC 19803

MF: C₂₁H₂₀O₁₂ FW: 464.4 ≥98% **Purity:**

 λ_{max} : 259, 354 nm UV/Vis.: A crystalline solid Supplied as:

Storage: -20°C Stability: ≥4 years

Item Origin: Plant/Myrica rubra bark

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

HO ÓН

Laboratory Procedures

Myricetrin is supplied as a crystalline solid. A stock solution may be made by dissolving the myricetrin in the solvent of choice, which should be purged with an inert gas. Myricetrin is soluble in the organic solvent DMSO at a concentration of approximately 2 mg/ml.

Myricetrin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Myricetrin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Myricetrin has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Myricetrin is a flavonoid that has been found in C. menyharthii leaf extracts and has diverse biological activities. 1.2 It is active against B. subtilis, E. coli, K. pneumoniae, S. aureus, and C. albicans (MIC = 0.25 mg/ml for all). Myricetrin inhibits acetylcholinesterase (AChE) and α -glucosidase in vitro $(IC_{50}s = 65 \text{ and } 79 \text{ }\mu\text{g/ml}, \text{ respectively})$. It inhibits LPS-induced production of TNF- α and enhances LPS-induced RANTES production in RAW 264.7 cells when used at concentrations of 0.2 and 1 mM.²

References

- 1. Aderogba, M.A., Ndhlala, A.R., Rengasamy, K.R., et al. Antimicrobial and selected in vitro enzyme inhibitory effects of leaf extracts, flavonols and indole alkaloids isolated from Croton menyharthii. Molecules 18(10), 12633-12644 (2013).
- 2. Shimosaki, S., Tsurunaga, Y., Itamura, H., et al. Anti-allergic effect of the flavonoid myricitrin from Myrica rubra leaf extracts in vitro and in vivo. Nat. Prod. Res. 25(4), 374-380 (2011).

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

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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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