Myricetin
Item No. 10012600

CAS Registry No.: 529-44-2
Formal Name: 3,5,7-trihydroxy-2-(3,4,5-trihydroxyphenyl)-4H-1-benzopyran-4-one
Synonyms: Cannabiscetin, NSC 407290
MF: C_{15}H_{10}O_{8}
FW: 318.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \( \lambda_{max} \) 255, 376 nm

Laboratory Procedures
For long term storage, we suggest that myricetin be stored as supplied at -20°C. It should be stable for at least two years.

Myricetin is supplied as a crystalline solid. A stock solution may be made by dissolving the myricetin in an organic solvent purged with an inert gas. Myricetin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of myricetin in ethanol is approximately 1 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Myricetin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, myricetin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Myricetin has a solubility of approximately 0.5 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Myricetin is a flavonoid compound found in many fruits and vegetables, including red wine, that acts as a powerful antioxidant. Myricetin inhibits TBARS formation with an IC_{50} value of 6.34 and at 20 µM, blocks oxLDL uptake by U937-derived macrophages, reducing CD36 expression. Myricetin demonstrates potent chemopreventative potential by binding JAK1/STAT3 to inhibit the neoplastic transformation of murine JB6 P+ cells and inhibiting MEK1 kinase activity.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10012600

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

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