Galangin
Item No. 15948

CAS Registry No.: 548-83-4
Formal Name: 3,5,7-trihydroxy-2-phenyl-4H-1-benzopyran-4-one
Synonyms: NSC 407229, 3,5,7-Trihydroxyflavone
MF: C_{15}H_{10}O_{5}
FW: 270.2
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \) 267, 302, 348, 361 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

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

**Laboratory Procedures**

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

Galangin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, galangin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Galangin has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

**Description**

Galangin is a flavonoid naturally found in herbs used in traditional medicine. Like many flavonoids, it has potent antioxidant properties.\(^1\) It also has anti-inflammatory actions related to suppression of signaling through NF-κB in mice.\(^2\) Galangin acts as an antagonist of the aryl hydrocarbon receptor, inducing apoptosis in cancer cells.\(^3-5\) It also inhibits cytochrome P450 isofrom 1A1 with an IC\(_{50}\) value of less than 1 µM.\(^6\)

**References**