Quercetin

Catalog #: 27214  Lot #: 120605

Size: 5 g  Structure:

CAS Registry #: 117-39-5

Purity: >95%

Chemical Formula: C_{15}H_{10}O_{7}

Molecular Weight: 302.2

Description: Quercetin is an inhibitor of PDEs of both cAMP and cGMP. It is a flavonoid found in plant and fruit bark or rinds. It is estimated that normal dietary intake of Quercetin for humans is 0.1-0.2 mg/kg. Quercetin can induce renal adenomas in male rats when fed at 2,000 mg/kg.

Appearance: A crystalline solid

Solubility: Soluble in ethanol, DMSO and DMF, purged with an inert gas. Solubility in ethanol is 2 mg/ml and solubility in DMSO and DMF is 30 mg/ml. For maximum solubility in aqueous buffers, dissolve in DMSO and then dilute with the aqueous buffer of choice. Do not store aqueous solutions for more than one day.

Biological Activity: Quercetin has been shown to inhibit PDE 5A with an IC_{50} value of 1.9 µM.

Storage/Stability: Store at or below -20°C for up to two years.

Quality Control: The purity was determined by HPLC analysis.

References: