Reticulol
Item No. 23148

CAS Registry No.: 26246-41-3
Formal Name: 6,8-dihydroxy-7-methoxy-3-methyl-1H-2-benzopyran-1-one
Synonyms: 6,8-dihydroxy-7-methoxy-3-methyl Isocoumarin, NSC 294978
MF: C_{11}H_{10}O_{5}
FW: 222.2
Purity: ≥95%
Supplied as: A powder
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

Reticulol is supplied as a powder. A stock solution may be made by dissolving the reticulol in the solvent of choice. Reticulol is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

Reticulol is an isocoumarin derivative produced by certain species of Streptomyces that inhibits cAMP phosphodiesterase (IC_{50} = 41 µM).^{1,2} It also inhibits DNA topoisomerase I when used at a concentration of 45 µM in B16F10 melanoma cells.^{3} Reticulol has antifungal activity against T. mentagrophyes with a MIC of 1.8 µM.^{4} It is cytotoxic against A427 human lung and B16F10 mouse melanoma cells at concentrations of 25 and 200 µM, respectively, and inhibits lung metastasis in mice.^{4}

References