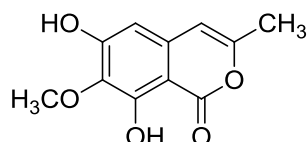


Reticulol

Code No.: **BIA-R1077**

Pack sizes: **1 mg, 5 mg**



Synonyms : 6,8-Dihydroxy-7-methoxy-3-methylisocoumarin

Specifications

CAS #	: 26246-41-3
Molecular Formula	: C₁₁H₁₀O₅
Molecular Weight	: 222.2
Source	: <i>Streptomyces</i> sp.
Appearance	: White Powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Reticulol is an isocoumarin metabolite produced by selected species of *Streptomyces*. Reticulol was first described as a potent inhibitor of cyclic nucleotide phosphodiesterase but more recent research has demonstrated a topoisomerase I inactivation mechanism. Reticulol also causes dose dependent inhibition of lung metastasis in the B16F10 melanoma model.

References

1. Topoisomerase I inactivation by reticulol and its in vivo cytotoxicity against B16F10 melanoma. Lim D.S. et al., *Chemotherapy* 2003, 49, 257.
2. Antitumor efficacy of reticulol from *Streptoverticillium* against the lung metastasis model B16F10 melanoma. Lung metastasis inhibition by growth inhibition of melanoma. Lim D.S. et al., *Chemotherapy* 2003, 49, 146.
3. Reticulol, an inhibitor of cyclic adenosine 3', 5'-monophosphate phosphodiesterase. Furutani Y. *J. Antibiot.* 1975, 28, 558.
4. Reticulol, a new metabolic isocoumarin. Mitscher L.A. et al., *Experientia* 1964, 20, 258.