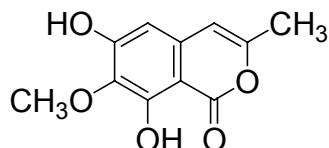


## Reticulol

Code: **BIA-R1077**

Pack sizes: **1.0 mg, 5.0 mg**



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

## Specifications

CAS # : **26246-41-3**  
Molecular Formula : **C<sub>11</sub>H<sub>10</sub>O<sub>5</sub>**  
Molecular Weight : **222.2**  
Source : ***Streptomyces* sp. MST-AS5364**  
Appearance : **White Powder**  
Purity : **> 95% by HPLC**  
Long Term Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO**

## 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 has also been demonstrated to cause a 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.