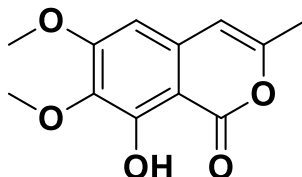


## PRODUCT DATA SHEET

### 6-O-Methylreticulol

(cyclic AMP phosphodiesterase inhibitor,  $\alpha$ -Glucosidase inhibitor)



### Specifications

Code No.	: 14693
CAS#	: 24350-93-4
Molecular Formula	: C <sub>12</sub> H <sub>12</sub> O <sub>5</sub>
Molecular Weight	: 236.223
Source	: <i>Streptomyces mobaraensis</i>
Supplied as	: Powder
Purity	: >98 % (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in MeOH, DMSO and DMF Insoluble in H <sub>2</sub> O

### Application Notes

Along with reticulol and other isocoumarins, 6-O-methylreticulol was isolated from the fermentation broth of *Streptomyces mobaraensis* MD611-C6.<sup>1,2)</sup> Though it had low inhibitory activity against cAMP phosphodiesterase, it was reported lately that 6-O-methylreticulol has  $\alpha$ -glucosidase inhibitory activity (IC<sub>50</sub> value: 41.75  $\mu$ g/ml).<sup>1,3)</sup>

### References

- 1) Isolation and structure of new isocoumarins. Furutani Y, *et al. Agr Biol Chem.* 1977 **41**(7) 1179-1183.
- 2) Metabolites produced by *Streptomyces mobaraensis*. Lin J, *et al. Agr Biol Chem.* 1971 **35**(3) 363-369.
- 3)  $\alpha$ -Glucosidase inhibitor produced by an endophytic fungus, *Xylariaceae* sp. QGS01 from *Quercus gilva* Blume. Indriainingsih A.W, *et al. Food Science and Human Wellness.* 2017 **6**(2) 88-95.