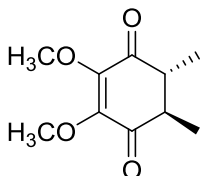


Glorosein

Code No.: **BIA-G1680**

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



Synonyms : 1,6-Dihydro-3,4-dimethoxy-6-methyltoluquinone

Specifications

CAS #	: 4373-40-4
Molecular Formula	: C ₁₀ H ₁₄ O ₄
Molecular Weight	: 198.2
Source	: <i>Gliocladium</i> sp.
Appearance	: White to off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Glorosein is an unusual dihydrobenzoquinone isolated from a strain of *Gliocladium roseum* reported by researchers at ICI, England in 1951. The structure of glorosein was resolved by Vischer two years later as a then unique "hemiquinone". The stereochemistry was resolved by Groves in 1966. Treatment of glorosein by acid or base with heat converts glorosein to its co-metabolite, aurantiogliocladium. Glorosein exhibits weak to moderate antibacterial and antifungal activity, however lack of availability has impaired a more detailed understanding of its pharmacology.

References

1. Three new antibiotics from a species of *Gliocladium*. Brian P.W. et al., *Experientia* 1951, 7, 266.
2. The structures of aurantio- and rubro-gliocladin and glorosein. Vischer E.B., *J. Chem. Soc.* 1953, 815.
3. The structure of glorosein. Grove J.F., *J. Chem. Soc.* 1966, 985a.