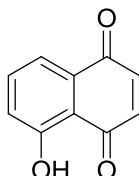


Juglone

Code No.: **BIA-J1739**

Pack sizes: **5 mg, 25 mg**



Synonyms : 5-Hydroxy-1,4-naphthoquinone, Nucin, PD7, CI75500, Natural brown 7

Specifications

CAS #	: 481-39-0
Molecular Formula	: C ₁₀ H ₆ O ₃
Molecular Weight	: 174.2
Source	: <i>Penicillium</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Juglone (5-hydroxynaphthoquinone) is a pigment found in several plant species, notably in the genus *Juglans* (walnuts and pecans) and has been reported as a metabolite of the plant pathogenic fungus, *Verticillium dahlia*. Juglone exhibits allelopathic, antifungal, herbicidal and anti-tumor activities and has been shown to induce quinone reductase and glutathione transferase. Juglone is a useful standard for analytical and bioassay dereplication of crude microbial extracts.

References

1. Naphthoquinone metabolites of the fungi, Medenstev A.G. and Akimenko V.K., *Phytochem.* 1998, 47, 935.
2. Pentaketide Metabolites of *Verticillium dahliae*. II. Accumulation of Naphthol Derivatives by the Aberrant-Melanin Mutant brm-2. Stipanovic R.D. and Bell A.A., *Mycologia* 1977, 69, 164.