Juglone

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

Specifications

- CAS #: 481-39-0
- Molecular Formula: C_{10}H_6O_3
- Molecular Weight: 174.2
- Source: Penicillium 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