Radicicol

Specifications

- **CAS #**: 12772-57-5
- **Molecular Formula**: C_{18}H_{17}ClO_{6}
- **Molecular Weight**: 364.8
- **Source**: Unidentified fungus MST-FP2087
- **Appearance**: White solid
- **Purity**: > 99% by HPLC
- **Long Term Storage**: -20°C
- **Solubility**: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility

Application Notes

Radicicol is a resorcylic acid lactone produced by several fungal species that exhibits broad spectrum antifungal and antitumor activity. Radicicol has been the subject of extensive investigation and been shown to inhibits protein tyrosine kinase, induce the differentiation of HL-60 cells into macrophages, block cell cycle at G1 and G2, suppression of NIH 3T3 cell transformation by diverse oncogenes such as src, ras and mos and also the expression of mitogen-inducible cyclooxygenase-2. As a cell differentiation modulator, radicicol has anti-angiogenic activity in vivo, inhibiting the proliferation of and plasminogen activator production by vascular endothelial cells.

References