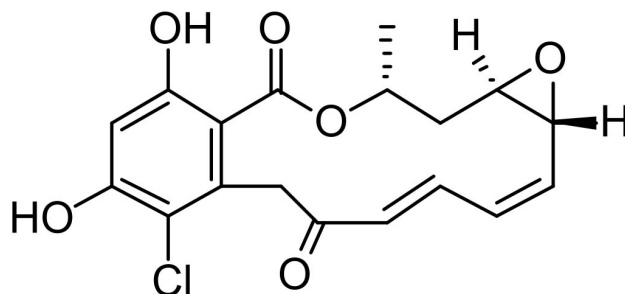


## Radicol

Code No.: BIA-R1148

Pack sizes.: 1mg, 5mg



Synonyms:  
Monorden

## Specifications

CAS #	: 12772-57-5
Molecular Formula	: C18H17ClO6
Molecular Weight	: 364.8
Source	: -
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

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

## References

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2. Induction of differentiation of HL-60 cells by the antifungal antibiotic, Radicol. Shimada, Y., et al., *J. Antibiot.* 1995, 48, 824.
3. Radicol inhibits tyrosine phosphorylation of the mitotic Src substrate Sam68 and retards subsequent exit from mitosis of Src-transformed cells. Pillay, I., et al., *Cell. Growth Differ.* 1996, 7, 1487.
4. Suppression of RAS and MOS transformation by radicol. Zhao, J.F., et al., *Oncogene* 1995, 11, 161.
5. Chemistry and biology of resorcylic acid lactones. Winssinger N. and Barluenga S. *Chem. Commun.*, 2007, 22.