Radicicol (Hsp90 Inhibitor)

Catalog# SIH-117A

Size: 1mg

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Product	**Radicicol**
Formula	**$C_{18}H_{17}ClO_6$**
MW	**364.8**
Source/Host	**Produced by fermentation**
Purity	**97% by TLC**
Solubility	**Soluble in DMSO**
Appearance	**White to light yellow powder**
Storage and stability	**-20°C; 1 year+; shipped ambient Protect from light.**

Scientific Background

Radicicol inhibits src (IC50=0.27μM) and src-like kinases(1), leading to hypophosphorylation of retinoblastoma tumor suppressor protein(2). It causes morphological reversion of ras-transformed cells(3) and leads to selective depletion of Raf kinase(4). It also displays anti-angiogenic activity(5), and binds to and inhibits Hsp 90 molecular chaperone(6). It binds more strongly to Hsp90 than to GRP94. It also binds to yeast HSP90, *E. coli* HtpG and TRAP-1.

Selected References

1. Kwon H.J., *et al.* (1992) *Cancer Res*. 52: 6929.
2. Yen A., *et al.* (1994) *Exp.Cell Res*. 214: 163.
3. Kwon H.J., *et al.* (1995) *J.Biochem.(Tokyo)* 118: 221.
4. Soga S., *et al.* (1998) *J.Biol.Chem*. 273:822.
5. Oikawa T., *et al.* *(1993) Eur.J.Pharmacol.* 241: 221.
6. Roe S.M. *et al.* (1999) *J.Med.Chem.* 42: 260.

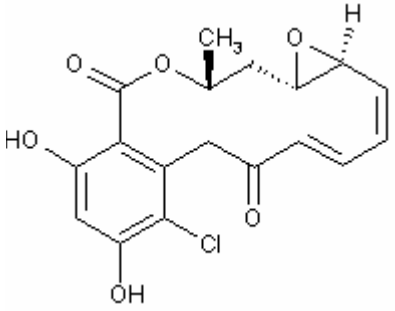

Figure 1: Structure of Radicicol

Material Safety Data Sheet

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

Known Hazardous Components	CAS Number	Percent
None		

Physical Data

This product consists of powder shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS number: 12772-57-5, Chemical Class: Macrolide

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Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.
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