



biochemicals

Manufactured by VDM Biochemicals.LLC

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Product Data Sheet

Product name: **IGF-1R Inhibitor, PPP**

Cat. number: **VD-OEIA-10002**

CAS Number: **477-47-4**

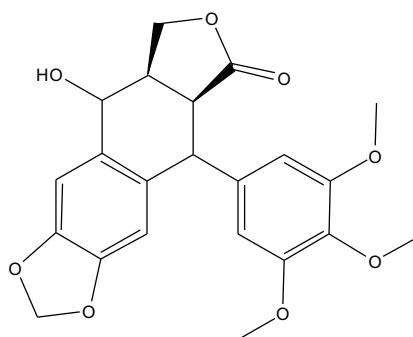
Lot number: **VD1889511**

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Personal protective equipment

■ Lab coat.

■ Safety glasses.



Product Specification

Formula:

C₂₂H₂₂O₈

MW:

414.4

Purity:

≥95% by HPLC

Appearance:

White solid

Solubility:

DMSO or EtOH

Storage:

+2°C to +8°C. **Protect from light.**

Synonyms:

Insulin-like Growth Factor-1 Receptor Inhibitor, Picropodophyllin

Product Description:

A cell-permeable cis-cycloignan compound that acts as a substrate competitive, reversible, potent, and specific inhibitor of IGF-1R both in vitro (IC₅₀ = 1 nM in cell-free kinase assay; ≤60 nM for cell viability and receptor autophosphorylation in melanoma cell lines) and in vivo (complete inhibition of IGF-1R-dependent tumor cell growth at 20 mg/kg/12 hr, i.p., in SCID mice) with minimum toxic effect (LD₅₀ > 500 mg/kg). Exhibits little effect towards IR, FGFR, PDGFR and EGFR, and exerts no effects on microtubules and DNA topoisomerase II. Targets the phosphorylation of Y1136 in the activation loop and is the first inhibitor reported to discriminate between IGF-1R and IR.

Product References

1. Mazitschek, R., and Giannis, A. 2004. Curr. Opin. Chem. Biol. 8, 432.
2. Vasilcanu, D., et al. 2004. Oncogene 23, 7854.
3. Girnita, A., et al. 2004. Cancer Res. 64, 236.

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