

**Product Name:** Verteporfin

**Catalog No.:** 5305

**Batch No.:** 4

CAS Number: 129497-78-5

IUPAC Name: (4*R*,4*aS*)-18-Ethenyl-4,4*a*-dihydro-3,4-bis(methoxycarbonyl)-4*a*,8,14,19-tetramethyl-24*H*,26*H*-benzo[*b*]porphine-9,13-dipropanoic acid monomethyl ester

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>41</sub>H<sub>42</sub>N<sub>4</sub>O<sub>8</sub>·½H<sub>2</sub>O

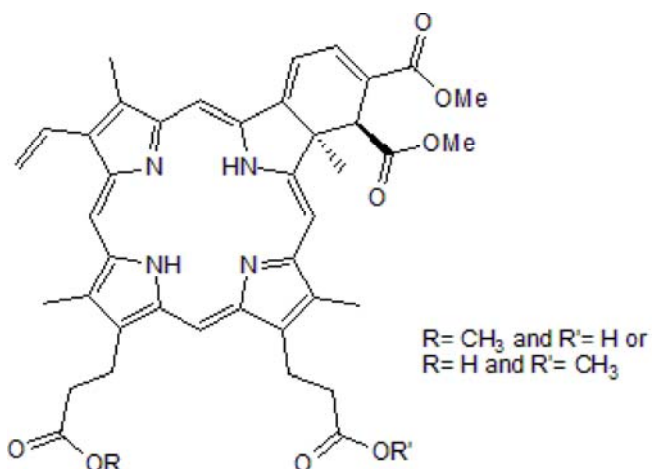
**Batch Molecular Weight:** 727.8

**Physical Appearance:** Black solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.66	5.95	7.7
Found	67.59	5.89	7.57

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

YAP inhibitor; disrupts YAP-TEAD interactions. Enhances trypsin cleavage of YAP (EC<sub>50</sub> = 100 nM). Inhibits growth and proliferation of retinoblastoma cells. Also suppresses cancer stem cell properties *in vitro*. Suppresses YAP-induced liver overgrowth in mice.

**Physical and Chemical Properties:**

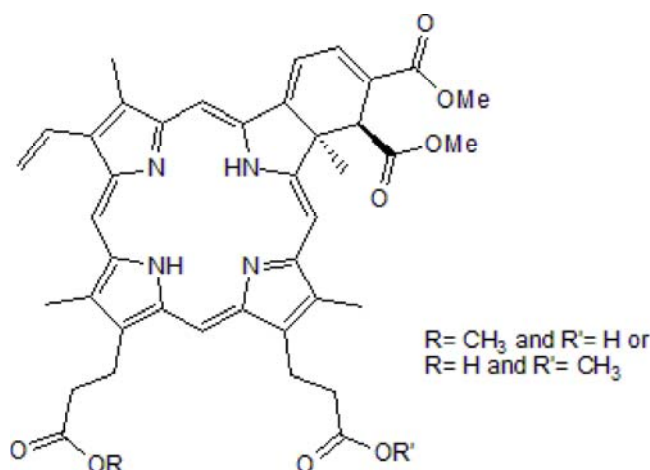
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Batch Molecular Weight: 727.8

Physical Appearance: Black solid

**Minimum Purity:** ≥97%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Brodowska et al** (2014) The clinically used photosensitizer vertep. (VP) inhibits YAP-TEAD and human retinoblastoma cell growth *in vitro* without light activation. *Exp. Eye Res.* **124** 67. PMID: 24837142.

**Song et al** (2014) Hippo coactivator YAP1 upregulates SOX9 and endows esophageal cancer cells with stem-like properties. *Cancer Res.* **74** 4170. PMID: 24906622.

**Liu-Chittenden et al** (2012) Genetic and pharmacological disruption of the TEAD-YAP complex suppresses the oncogenic activity of YAP. *Genes Dev.* **26** 1300. PMID: 22677547.

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