

Product Name: Verteporfin

Catalog No.: 5305

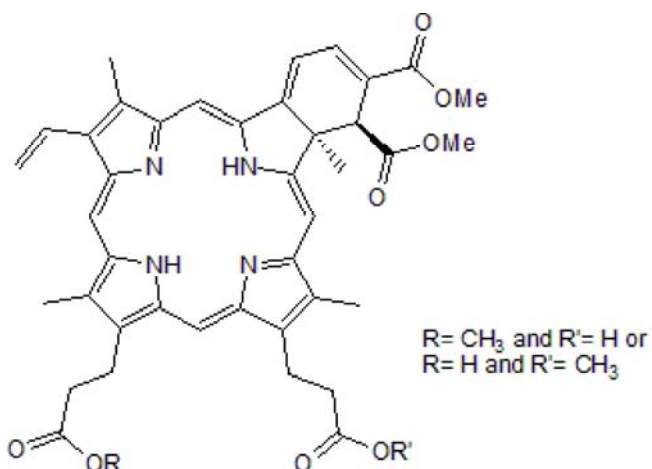
Batch No.: 5

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 ₄₁ H ₄₂ N ₄ O ₈
Batch Molecular Weight:	718.79
Physical Appearance:	Black solid
Solubility:	DMSO to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 96.3% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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Description:

Verteporfin is a YAP inhibitor; disrupts YAP-TEAD interactions. Enhances trypsin cleavage of YAP (EC₅₀ = 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:

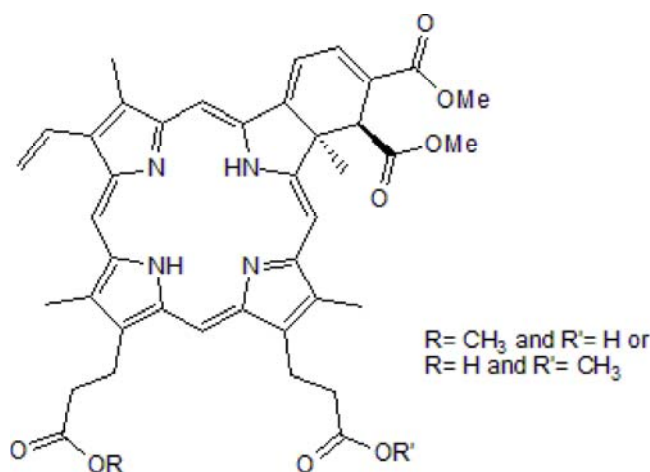
Batch Molecular Formula: C₄₁H₄₂N₄O₈

Batch Molecular Weight: 718.79

Physical Appearance: Black solid

Minimum Purity: ≥95%

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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956