



Catalog # 10-3487

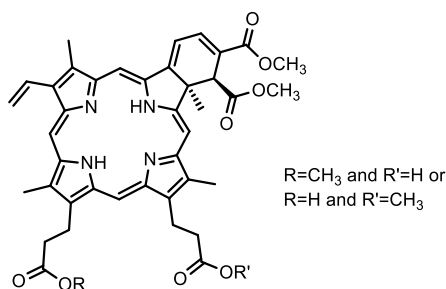
Verteporfin

CAS# 129497-78-5

(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-dipropionic acid monomethyl ester;

CL 318,952; BPD-MA

Lot # X108761



Verteporfin inhibits transcription by YAP/TAZ, IC₅₀ = 2.5 μ M, (via disruption of YAP-TEAD interaction) inhibiting autophagy and halting proliferation of cancer and cancer stem cell lines.^{1,2} Inhibits autophagosome formation.³ Reverses differentiation of Src-overexpressing embryonic stem cells.⁴ May be used to ablate unwanted neovasculature in the eye, esophageal mucosa, and elsewhere using light to create damaging free radicals.⁵

- 1) Saini *et al.* (2021), *Verteporfin disrupts multiple steps of autophagy and regulates p53 to sensitize osteosarcoma cells*; Cancer Cell Int., **21** 52
- 2) Vigneswaran *et al.* (2021), *YAP/TAZ Transcription Coactivators Create Therapeutic Vulnerability to Verteporfin in EGFR-mutant Glioblastoma*; Clin. Cancer Res., **27** 1553
- 3) Donohue *et al.* (2014), *Induction of Covalently Crosslinked p62 Oligomers with Reduced Binding to Polyubiquitinated Proteins by the Autophagy Inhibitor Verteporfin*; PLoS One, **9** e114964
- 4) Luo *et al.* (2021), *Src-Yap1 signaling axis controls the trophectoderm and epiblast lineage differentiation in mouse embryonic stem cells*; Stem Cell Res., **54** 102413
- 5) Bressler *et al.* (2000), *Photodynamic therapy with verteporfin (Visudyne): impact on ophthalmology and visual sciences*; Ophthalmol. Vis. Sci., **41** 624

PHYSICAL DATA

Molecular Weight:	718.79
Molecular Formula:	C ₄₁ H ₄₂ N ₄ O ₈
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 14 mg/ml)
Physical Description:	Black solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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