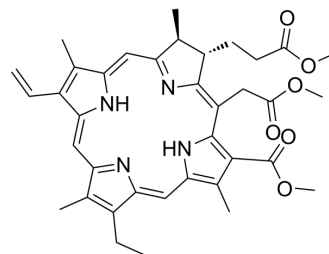


Chlorin e6 trimethyl ester

Cat. No.:	HY-137475		
CAS No.:	35038-32-5		
Molecular Formula:	C ₃₇ H ₄₂ N ₄ O ₆		
Molecular Weight:	638.75		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (15.66 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.5656 mL	7.8278 mL	15.6556 mL
5 mM	0.3131 mL	1.5656 mL	3.1311 mL
10 mM	0.1566 mL	0.7828 mL	1.5656 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Chlorin e6 trimethyl ester, a methyl pheophorbide-a derivative, is a photosensitizer that can be used in photodynamic therapy (PDT)^{[1][2]}.

In Vivo

Chlorin e6 trimethyl ester (5 mg/kg; i.p.) has no tumoricidal activity in mice^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Research Square Preprint. 2023 Jun 21.

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REFERENCES

- [1]. Pandey RK, et, al. Chlorin and porphyrin derivatives as potential photosensitizers in photodynamic therapy. *Photochemistry and Photobiology*. 1991. 53(1):65-72.
- [2]. Bauer D, et, al. Functionalization of chlorin e6 trimethylester towards potential amphiphilic photosensitizers for photodynamic therapy. *Journal of Porphyrins and Phthalocyanines*. 2019. 23(3): 243-250.
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Caution: Product has not been fully validated for medical applications. For research use only.

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