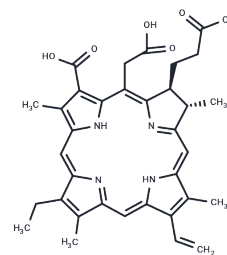


## Chlorin E6

## Chemical Properties

CAS No. :	19660-77-6
Formula:	C <sub>34</sub> H <sub>36</sub> N <sub>4</sub> O <sub>6</sub>
Molecular Weight:	596.67
Storage:	Keep away from direct sunlight, Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Chlorin E6 (CE6) is a second-generation photosensitizer with antitumor activity when used in combination with irradiation. In a mouse model of implanted fibrosarcoma, Chlorin E6 (2.5-10 mg/kg, i.v., 50-200 J/cm <sup>2</sup> irradiation) resulted in complete tumor disappearance after varying degrees of irradiation. Agents including Chlorin E6 were tested in a Phase I clinical study in patients with early superficial squamous cell carcinoma of bronchial origin with favorable results (40 mg/m <sup>2</sup> , IV, 100 J/cm <sup>2</sup> laser irradiation). In a Phase II clinical trial in patients with early stage lung cancer, the same mode of administration resulted in a complete response in 82.9% of patients. Chlorin E6 has been investigated as a nanotechnology drug delivery tool.
Targets(IC50)	Apoptosis, Bcl-2 Family, Caspase, Parasite, PARP, Photosensitizer

## Solubility Information

Solubility	DMSO: 11.93 mg/mL (19.99 mM), Sonication is recommended. DMF: 11.93 mg/mL (19.99 mM), Sonication is recommended. Ethanol: Slightly Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.676 mL	8.3798 mL	16.7597 mL
5 mM	0.3352 mL	1.676 mL	3.3519 mL
10 mM	0.1676 mL	0.838 mL	1.676 mL
50 mM	0.0335 mL	0.1676 mL	0.3352 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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