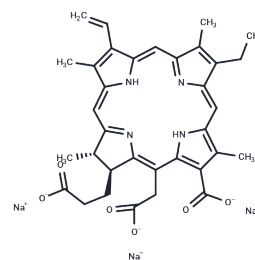


Chlorin e6 trisodium

Chemical Properties

CAS No. :	72984-36-2
Formula:	C ₃₄ H ₃₃ N ₄ Na ₃ O ₆
Molecular Weight:	662.62
Storage:	Keep away from moisture 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 trisodium (Ce6 trisodium) is a water-soluble derivative of chlorophyll and belongs to the chlorin photosensitizers with an absorption wavelength range of 600–670 nm. Upon photoexcitation, Chlorin e6 trisodium can produce characteristic red fluorescence for real-time observation of tumor boundaries and disease progression. Chlorin e6 trisodium can be used in photodynamic therapy (PDT)-related research and fluorescence diagnosis research of malignant tumors such as bladder cancer and related neoplastic lesions.
Targets(IC50)	Others
In vitro	Methods: HeLa cells were treated with Chlorin e6 trisodium and incubated for 24 hours before irradiation. Results: Chlorin e6 trisodium exhibited dark toxicity in HeLa cells with an IC ₅₀ of 13 μM, and exhibited phototoxicity with an IC ₅₀ of 0.83 μM [3].
In vivo	Methods: Balb/c nude mice bearing MGH xenografts were treated with Chlorin e6 trisodium (2.5-5 mg/kg, intravenous injection, single dose) combined with laser irradiation. Results: Chlorin e6 trisodium exhibited high phototoxicity and induced significantly higher tumor necrosis in tumor tissues [1][2].

Solubility Information

Solubility	DMSO: 4.00 mg/mL (6.04 mM), Sonication is recommended. H ₂ O: 4.00 mg/mL (6.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5092 mL	7.5458 mL	15.0916 mL
5 mM	0.3018 mL	1.5092 mL	3.0183 mL
10 mM	0.1509 mL	0.7546 mL	1.5092 mL
50 mM	0.0302 mL	0.1509 mL	0.3018 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

Chin WW, et al. The potential application of chlorin e6-polyvinylpyrrolidone formulation in photodynamic therapy. *Photochem Photobiol Sci.* 2006 Nov;5(11):1031-7.

Chin WW, et al. Fluorescence imaging and phototoxicity effects of new formulation of chlorin e6-polyvinylpyrrolidone. *J Photochem Photobiol B.* 2006 Aug 1;84(2):10310.

Rybkin AY, et al. Nanoparticles of N-Vinylpyrrolidone Amphiphilic Copolymers and Pheophorbide a as Promising Photosensitizers for Photodynamic Therapy: Design, Properties and In Vitro Phototoxic Activity. *Pharmaceutics.* 2023 Jan 12;15(1):273.

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