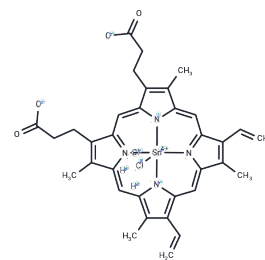


Tin-protoporphyrin IX dichloride

Chemical Properties

CAS No. :	14325-05-4
Formula:	C ₃₄ H ₃₂ Cl ₂ N ₄ O ₄ Sn
Molecular Weight:	750.26
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tin-protoporphyrin IX dichloride (SnPPIX dichloride) is an HO-1 inhibitor with antiviral activity that inhibits dengue and yellow fever viruses.
Targets(IC50)	Reactive Oxygen Species, Autophagy, ROS, Virus Protease
In vitro	In Capan-1, CD18/HPAF, and PDAC cells, Tin protoporphyrin IX dichloride (20 μM, 50 μM; 24 or 72 hours) inhibited proliferation of Capan-1 and CD18/HPAF cells and inhibited growth of PDAC cells at 50 μM[1].
In vivo	In male and female athymic nude mice with PDAC cell-derived xenograft tumors, Tin protoporphyrin IX dichloride (5 mg/kg; Intraperitoneal injection; on days 1, 4, 6, 8, 11, 13, 15, 18, and 20) inhibited tumor growth and sensitized tumors to chemotherapy (Gemcitabine)[1].

Solubility Information

Solubility	0.1M NaOH: 10 mg/mL (13.33 mM), Sonication is recommended. DMSO: 5 mg/mL (6.66 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	1.3329 mL	6.6644 mL	13.3287 mL
5 mM	0.2666 mL	1.3329 mL	2.6657 mL
10 mM	0.1333 mL	0.6664 mL	1.3329 mL
50 mM	0.0267 mL	0.1333 mL	0.2666 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

Abdalla MY, et al. Enhancing responsiveness of pancreatic cancer cells to gemcitabine treatment under hypoxia by heme oxygenase-1 inhibition. *Transl Res.* 2019 May;207:56-69.

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