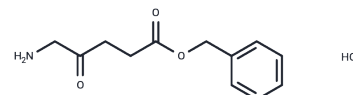


5-ALA benzyl ester hydrochloride

Chemical Properties

CAS No. :	163271-32-7
Formula:	C ₁₂ H ₁₆ ClNO ₃
Molecular Weight:	257.71
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	5-ALA benzyl ester hydrochloride (Benzyl-ALA hydrochloride) is a protoporphyrin precursor. 5-ALA benzyl ester hydrochloride is used as a photodetection agent. 5-ALA benzyl ester hydrochloride could induce protoporphyrin IX (PPIX) accumulation in colon carcinoma cell lines.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	In colon carcinoma cell lines SW480, 5-ALA benzyl ester hydrochloride (0.6-0.12 mM; 3h) induces PPIX accumulation[1].
In vivo	In female CBA/Gy mice, 5-ALA benzyl ester hydrochloride (31 mg/kg; i.v.; 1h) results in a dose-dependent reduction in tumour porphyrin levels[2].
Animal Research	Animal Model: Female CBA/Gy mouse (CaNT tumour model) Dosage: 31 mg/kg Administration: i.v. ; 1 hours [3]

Solubility Information

Solubility	DMSO: 245 mg/mL (950.68 mM),Sonication is recommended. H2O: 95 mg/mL (368.63 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	3.8803 mL	19.4017 mL	38.8033 mL
5 mM	0.7761 mL	3.8803 mL	7.7607 mL
10 mM	0.388 mL	1.9402 mL	3.8803 mL
50 mM	0.0776 mL	0.388 mL	0.7761 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.

Reference

Brunner H, et al. The effects of 5-aminolevulinic acid esters on protoporphyrin IX production in human adenocarcinoma cell lines. Photochem Photobiol. 2001 Nov;74(5):721-5.

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