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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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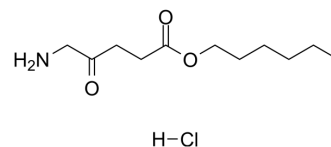
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Hexaminolevulinate hydrochloride

Cat. No.:	HY-16045
CAS No.:	140898-91-5
Molecular Formula:	C ₁₁ H ₂₂ ClNO ₃
Molecular Weight:	251.75
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (397.22 mM) H ₂ O : 100 mg/mL (397.22 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.9722 mL	19.8610 mL	39.7219 mL
		5 mM		0.7944 mL	3.9722 mL	7.9444 mL
		10 mM		0.3972 mL	1.9861 mL	3.9722 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (397.22 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.93 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.93 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.93 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Hexaminolevulinate (Hexyl 5-aminolevulinate) hydrochloride, a porphyrin precursor, is a photosensitizer that can be used in photodynamic therapy (PDT) for certain tumor. Hexaminolevulinate hydrochloride can improve the visualisation of bladder tumours ^{[1][2]} .
In Vitro	Hexaminolevulinate (2.5-100 μM; 4 h in serum-free medium) hydrochloride induces PpIX production in L1210 cell line and

pure BM^[2].

Hexaminolevulinate (1-100 μ M; 4 h in serum-free medium) hydrochloride induces PpIX production in the mixtures of BM with L1210 tumor cells^[2].

Hexaminolevulinate (20-100 μ M) in combination with increasing doses of blue light illumination from 0 to 120 s results in progressive killing of L1210 cells^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Witjes JA, et, al. Hexaminolevulinate-guided fluorescence cystoscopy in the diagnosis and follow-up of patients with non-muscle-invasive bladder cancer: review of the evidence and recommendations. Eur Urol. 2010 Apr;57(4):607-14.

[2]. Čunderlíková B, et, al. Hexaminolevulinate-mediated photodynamic purging of leukemia cells from BM. Bone Marrow Transplant. 2010 Oct;45(10):1553-61.

Caution: Product has not been fully validated for medical applications. For research use only.

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