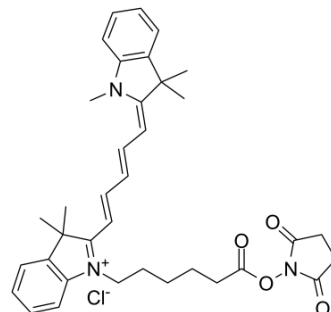


Cyanine5 NHS ester chloride

Cat. No.:	HY-135414
CAS No.:	1032678-42-4
Molecular Formula:	C ₃₆ H ₄₂ ClN ₃ O ₄
Molecular Weight:	616.19
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (405.72 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.6229 mL	8.1144 mL	16.2288 mL
				5 mM	0.3246 mL	1.6229 mL	3.2458 mL
				10 mM	0.1623 mL	0.8114 mL	1.6229 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.38 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.38 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Cyanine5 NHS ester chloride is a red emitting fluorescent dye for labeling of amino-groups in peptides, proteins, and oligonucleotides ^[1] .
In Vitro	Cyanine-5 NHS ester amine-reactive red emitting fluorescent dye is used to react with the free amino group on the cysteine amino acid present in terminal peptides used for end-capping Poly(β-amino esters) (pBAEs) backbones ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Brugada-Vilà P, et al. Oligopeptide-modified poly(beta-amino ester)s-coated AdNuPARmE1A: Boosting the efficacy of intravenously administered therapeutic adenoviruses. *Theranostics*. 2020;10(6):2744-2758.

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

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