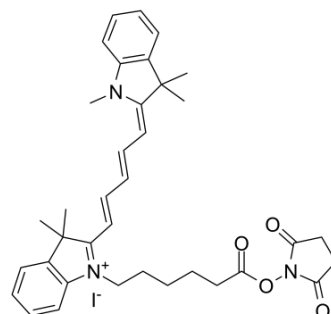


## Cyanine5 NHS ester iodide

<b>Cat. No.:</b>	HY-135414B		
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>42</sub> IN <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	707.64		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 110 mg/mL (155.45 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.4131 mL	7.0657 mL	14.1315 mL
		<b>5 mM</b>		0.2826 mL	1.4131 mL	2.8263 mL
<b>10 mM</b>		0.1413 mL	0.7066 mL	1.4131 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.75 mg/mL (3.89 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.75 mg/mL (3.89 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Cyanine5 NHS ester iodide is a red emitting fluorescent dye for labeling of amino-groups in peptides, proteins, and oligonucleotides <sup>[1]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA