

## Cyanine5 NHS ester chloride

## Chemical Properties

CAS No. : 1032678-42-4

Formula: C<sub>36</sub>H<sub>42</sub>ClN<sub>3</sub>O<sub>4</sub>

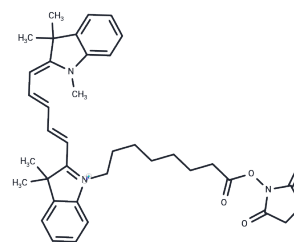
Molecular Weight: 616.19

Storage:

Store at low temperature, Keep away from direct sunlight

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	Cyanine5 NHS ester chloride is a reactive dye with red fluorescence that requires a small amount of organic cosolvent (such as DMF or DMSO) to label amino groups in peptides, proteins, and oligonucleotides.
Targets(IC50)	Others
In vitro	Anthocyanin-5 NHS ester amine reactive red fluorescent dyes are used to react with free amino groups on cysteine amino acids, which are present in terminal peptides for end-wrapped polybeta-amino ester (pBAEs) skeletons [1].
Cell Research	<p>Cyanine5 NHS ester chloride fluorescent labeling experiment</p> <p>Operation steps:</p> <ol style="list-style-type: none"> <li>Weigh Cyanine5 NHS ester chloride to prepare a 2 mg/mL methanol solution, take 300 µL and add the substrate to be labeled;</li> <li>Gradually add 10 mL of deionized water under high-speed stirring, and react at room temperature in the dark for 2 h;</li> <li>After centrifugation and washing, the Cy5-labeled fluorescent material is obtained and stored at 4°C for later use.</li> </ol> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

## Solubility Information

Solubility	DMSO: 225 mg/mL (365.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0325 mL	0.1623 mL	0.3246 mL

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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

wenjie L, et al. Studies on construction of reactive oxygen species-eliminating nanomicelles and their therapeutic effects for targeted treatment of abdominal aortic aneurysm. [D]. 2022.

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