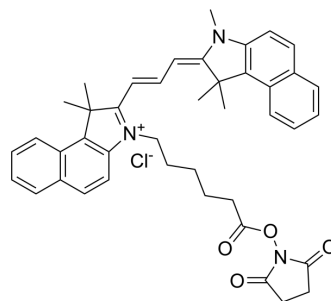


Cyanine 3.5 chloride

Cat. No.:	HY-D1596
CAS No.:	2231670-86-1
Molecular Formula:	C ₄₂ H ₄₄ ClN ₃ O ₄
Molecular Weight:	690.27
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyanine 3.5 (Cy3.5 NHS ester) chloride is an analog of Cy3.5 fluorophore. Cyanine 3.5 chloride is a reactive, red fluorescent dye. Cyanine 3.5 chloride is used for labeling of amino-groups in peptides, proteins, and oligonucleotides. ($\lambda_{ex}=591$ nm, $\lambda_{em}=604$ nm) ^{[1][2]} .
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Labeling of Cells: 1. Culture HepG2 cells in DMEM/HIGH GLUCOSE medium (containing 10% FBS, 100 U/mL penicillin G and 100 µg/mL streptomycin sulfate) at 37°C in 5% CO₂ atmosphere. 2. Add 1×10⁶ HepG2 cells with logarithmic half-life in a confocal culture dish. Incubate cells at 37°C, 5% CO₂, for 36 h. 3. Add 200 µL of 10 µg/mL Hoechst fluorescent dye 33342. Incubate cells at 37°C, 5% CO₂, for 20 minutes. 4. Changed the medium with 200 µL of Cy3.5-loaded FA-PEG-RH nanomicelles. 5. Take cell photos with a fluorescence microscope under 350 nm and 550 nm fluorescence excitation after 1h, 4 h, 8 h, and 16 h, respectively.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Ning ZJ, et, al. Synthesis and evaluation of targeted nanomicelle delivery system with rhein as the hydrophobic end and its synergistic therapy effect on tumor. 2021 Dec;66.
- [2]. Kravchuk OI, et, al. Characterization of the 20S proteasome of the lepidopteran, Spodoptera frugiperda. Biochim Biophys Acta Proteins Proteom. 2019 Sep;1867(9):840-853.

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

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