Product Datasheet

Cy 3

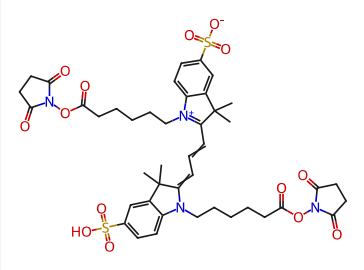
Catalog No. **BP-08728** · CAS **146397-20-8** · Form **free base** · Physical state **solid** · Version **1.0** · Revision **2026-11-12**

FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target	Research area
Fluorescent Dye	**Others**

Molecular formula	—
Molecular weight	—

STRUCTURE



DESCRIPTION

Cy 3 Non-Sulfonated (Cyanine3) is a cyanine (Cy) dye, and a fluorescent label with green channel for protein and nucleic acid. Cy 3 Non-Sulfonated is a fluorescent photoproduct of Cyanine5 via photoconversion upon photoexcitation. Cy 3 Non-Sulfonated can be used to high-density single-particle tracking in a living cell without using UV illumination and cell-toxic additives (Ex=470 nm; Em=515 nm and 565 nm nm) .

BIOLOGICAL ACTIVITY

In Vitro
Guide (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)[2].

Labeling of Protein:

1. Add protein (100 μL) to Cy 3 Non-Sulfonated in 96 black micro-well for 50 min at 37 °C. Incubate the cells according to your normal protocol.

2. Scan plate using BioTek and collect data with excitation wavelength of 470 nm, and emission wavelength of 515 nm and 565 nm.

REFERENCES

[1]. Cho Y, et al. Mechanism of Cyanine5 to Cyanine3 Photoconversion and Its Application for High-Density Single-Particle Tracking in a Living Cell. J Am Chem Soc. 2021 Sep 8;143(35):14125-14135. (https://pubmed.ncbi.nlm.nih.gov/34432445/)

[2]. Li H, et al. Silver enhanced ratiometric nanosensor based on two adjustable Fluorescence Resonance Energy Transfer modes for quantitative protein sensing. Biosens Bioelectron. 2017 Jan 15;87:428-432.

(https://pubmed.ncbi.nlm.nih.gov/27589407/)

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