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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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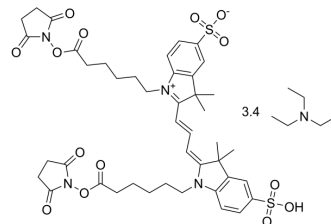
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Cy 3 (Non-Sulfonated) (triethylamine)

Cat. No.:	HY-D0968B
Molecular Formula:	C ₄₉ H ₆₅ N ₅ O ₁₄ S ₂
Molecular Weight:	1255.06
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Cy 3 Non-Sulfonated (Cyanine3) triethylamine is a cyanine (Cy) dye, and a fluorescent label with green channel for protein and nucleic acid. Cy 3 Non-Sulfonated triethylamine is a fluorescent photoproduct of Cyanine5 via photoconversion upon photoexcitation. Cy 3 Non-Sulfonated triethylamine 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) ^{[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).</p> <p>Labeling of Protein^[2]:</p> <ol style="list-style-type: none"> 1. Add protein (100 µL) to Cy 3 Non-Sulfonated triethylamine 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. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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.

[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.

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

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