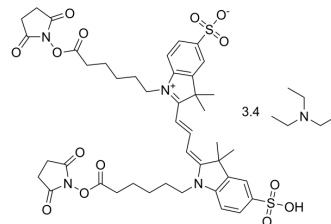


## Cy 3 (Non-Sulfonated) (triethylamine)

<b>Cat. No.:</b>	HY-D0968B
<b>Molecular Formula:</b>	C <sub>49</sub> H <sub>65</sub> N <sub>5</sub> O <sub>14</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	1255.06
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	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

<b>Description</b>	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) <sup>[1][2]</sup> .
<b>In Vitro</b>	<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<sup>[2]</sup>:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Scan plate using BioTek and collect data with excitation wavelength of 470 nm, and emission wavelength of 515 nm and 565 nm.</li> </ol> <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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