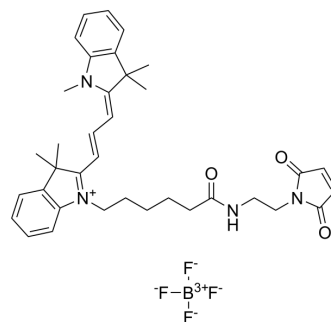


Cyanine3 maleimide tetrafluoroborate

Cat. No.:	HY-D1618
CAS No.:	2755154-93-7
Molecular Formula:	C ₃₆ H ₄₃ BF ₄ N ₄ O ₃
Molecular Weight:	666.56
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyanine3 maleimide tetrafluoroborate is a specific labeling reagent for sulfhydryl groups with the λ_{ex} of 550 nm and λ_{em} of 580 nm. Cyanine3 maleimide tetrafluoroborate can be used for protein and peptide labeling ^{[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 Protein: 1. The protein concentration was adjusted to 1 mg/mL for 100 μL. 2. A 100 μL aliquot of the protein solution was mixed with Cyanine3 maleimide tetrafluoroborate (8 μg) in DMSO (2 μL). 3. Incubated overnight at 4 °C in the dark. 4. Labeled proteins were desalted using a G25 desalting column to remove excessive Cyanine3 maleimide tetrafluoroborate. 5. Fluorescence intensities (FI) of labeled proteins were measured at excitation and emission wavelengths of 550 nm and 570 nm, respectively. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Zartner L, et al. Membrane protein channels equipped with a cleavable linker for inducing catalysis inside nanocompartments. *J Mater Chem B*. 2021 Nov 10;9(43):9012-9022.
- [2]. He J, et al. The effect of meat processing methods on changes in disulfide bonding and alteration of protein structures: impact on protein digestion products. *RSC Adv*. 2018 May 15;8(31):17595-17605.

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

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