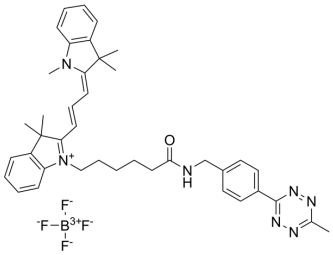
Cy3 methyltetrazine

Cat. No.:	HY-151776
CAS No.:	2183473-57-4
Molecular Formula:	$C_{40}H_{46}BF_4N_7O$
Molecular Weight:	727.64
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cy3 methyltetrazine (TZ-Cy3) is a click chemistry reagent with methyltetrazine building blocks that is highly reactive towards cyclooctene. Cy3 methyltetrazine is also a tetrazine-modified fluorescent probe that can be used to analyze protein phosphorylation in solution and living cells[1].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Confocal imaging of phosphorylation in cells: 1. Culture H1299 cells in a coverglass-bottom imaging dish for 24 h (take H1299 cells as an example). 2. Incubate H1299 cells with different concentrations of ATP-NB (a ATP analogue functionalized by norbornene, which can penetrate cells and efficiently phosphorylate proteins in living cells) for 1 h. 3. Add Cy3 methyltetrazine to label the phosphorylated protein with fluorescence. 4. Incubate with fresh medium for 1 h. 5. Wash the cells twice with PBS to release the free Cy3 methyltetrazine probe. 6.Incubate the cells with 4% paraformaldehyde for 15 min and with 0.1% Triton X-100 solution at room temperature for 10 min. 7. Wash cells 4 times with PBS. 8. Use a confocal microscopy imaging system to obtain the high-resolution images of cells (Ex=488 nm; Em=561 nm). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Y, et al. Analysis of protein phosphorylation in solution and in cells by using an ATP analogue in combination with fluorescence techniques. Analyst. 2021 Jul 21;146(14):4506-4514.

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