Flipper-TR probe

Cat. No.: HY-D2316

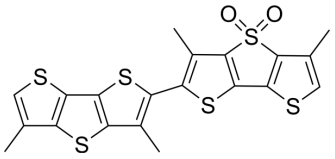
Molecular Formula: $C_{20}H_{14}O_2S_6$

Molecular Weight: 478.71

Target: Fluorescent Dye

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flipper-TR probe (Compound FliptR probe) is a fluorescent probe specifically designed to measure cell membrane tension. Flipper-TR probe reports changes in membrane tension through variations in its fluorescence lifetime. Flipper-TR probe is applicable to a wide range of organisms including bacteria, yeast, mammals, and plants[1].
In Vitro	Usage Guidelines: Storage: Flipper-TR should be stored at -20°C upon receipt. Probe Preparation: Dissolve the probe in anhydrous DMSO to create a 1 mM stock solution, which should be stored at -20 °C or lower. Staining Solution Preparation: Prior to use, dilute Flipper-TR to the desired concentration (typically starting at 1 μM) in cell culture medium. Staining Protocol: After cells reach the desired density, replace the culture medium with the staining solution to cover all cells, then incubate at 37°C in a humidified atmosphere with 5 % CO_2 for 15 minutes before imaging. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Colom A, et al. A fluorescent membrane tension probe. Nat Chem. 2018 Nov;10(11):1118-1125.

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