

Product Data Sheet

Product Name: Flipper-TR probe

Cat. No.: GC74223

Chemical Properties

Cas. No.

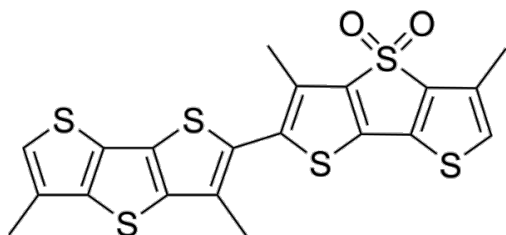
Formula $C_{20}H_{14}O_2S_6$ M.Wt 478.71

Solubility Storage -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

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.

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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(typically starting at 1 μ M) 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 % CO₂ for 15 minutes before imaging.

References:

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

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