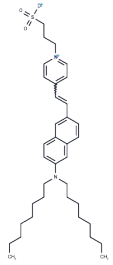
Data Sheet (Cat.No.T18973)

TargetMol

Di-8-ANEPPS

Chemical Properties



CAS No. : 157134-53-7

Formula: C36H52N2O3S

Molecular Weight: 592.88

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Di-8-ANEPPS is a voltage-sensitive dye and fast-response probe that fluoresces in response to potential changes in the environment and is capable of detecting transient potential changes in cells, with a 2-10% fluorescence change per 100 mV and potential-dependent changes in the excitation spectrum.
Targets(IC50)	Others
In vitro	Di-8-ANEPPS (5μM) was applied to mouse ventricular myocardium for 20 minutes and used to record action potential propagation. Di-8-ANEPPS reduced gap junctional conductance and slowed conduction velocity by lowering phosphorylation of Connexin43[1].

Solubility Information

Solubility	DMSO: 1 mg/mL (1.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6867 mL	8.4334 mL	16.8668 mL
5 mM	0.3373 mL	1.6867 mL	3.3734 mL
10 mM	0.1687 mL	0.8433 mL	1.6867 mL
50 mM	0.0337 mL	0.1687 mL	0.3373 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Manno C, et al. Confocal imaging of transmembrane voltage by SEER of di-8-ANEPPS. J Gen Physiol. 2013 Mar;141 (3):371-87.

Youngworth R, Roux B. Simulating the Voltage-Dependent Fluorescence of Di-8-ANEPPS in a Lipid Membrane. J Phys Chem Lett. 2023 Sep 14;14(36):8268-8276.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481