

## Di-8-ANEPPS

## Chemical Properties

CAS No.:	157134-53-7
Formula:	C <sub>36</sub> H <sub>52</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	592.87
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Di-8-ANEPPS is a voltage-sensitive dye, shifting both their fluorescence excitation and emission spectra upon changes in V <sub>m</sub> .
Targets(IC <sub>50</sub> )	Others: None
In vitro	A mouse cell staining with Di-8-ANEPPS has applied voltage-clamp pulses and immersed in Na <sup>+</sup> -containing solution. The Di-8-ANEPPS signal, which largely reflects the system voltage, has an asymmetrical positive component upon application of depolarizing pulses. Notably, the peak of the signal occurs at 0.3 ms after the leading edge of the depolarizing pulse.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.687 mL	8.434 mL	16.867 mL
5 mM	0.337 mL	1.687 mL	3.373 mL
10 mM	0.169 mL	0.843 mL	1.687 mL
50 mM	0.034 mL	0.169 mL	0.337 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

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