

Product Information

Di-4-ANEPPDHQ

Catalog Number: D4024

Product Size: 1 mg

Application Scope: Membrane potential staining

Parameters

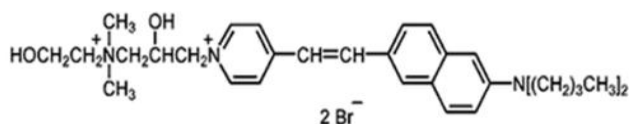
Appearance: Red-brown solid soluble in DMSO, DMF or EtOH

Ex/Em (MeOH) = 512/712 nm

Molecular Formula: C₃₂H₄₇Br₂N₃O₂

Molecular Weight: 665.55

Molecular Structure:



Storage

Store at -20°C and protect from light. When stored as directed, product is stable for at least 12 months.

Description

Di-4-ANEPPDHQ is a fast responding membrane potential dye. It does not have fluorescence activity itself, and only emits fluorescence after binding to the cell membrane. Di-4-ANEPPDHQ optical response is sufficiently fast to detect transient potential changes in excitable cells, including single neurons, cardiac cells, and intact brains. It has a fairly uniform

10% per 100 mV change in fluorescence intensity.

Protocol

1. Storage solution preparation: Use DMSO to prepare a storage solution of 1-10 mM.

Note: It is recommended to store the storage solution at -20 °C, and aliquot it in small quantities to avoid repeated freeze-thaw cycles.

2. Preparation of working solution: Dilute the storage solution with a suitable buffer (such as serum-free medium, PBS, etc.) to prepare a working solution with a concentration of 10-15 μM.

Note: You may need to optimize the staining procedure for each particular cell type by varying the dye concentration, staining volume, labeling time, or wash steps.

Notes

1. There are quenching problems with fluorescent dyes. Please avoid light to slow down the fluorescence quenching.
2. For your safety and health, please wear lab coats and disposable gloves.

