

Dihydrorhodamine 123

Cat. No. DYE-170 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description

DHR is a cell-permeable fluorogenic probe that is used as an indicator of intracellular peroxynitrite formation. It is oxidized by peroxynitrite to the highly fluorescent product rhodamine in vitro. Neither nitric oxide, superoxide, nor hydrogen peroxide alone appear to oxidize DHR. Formation of rhodamine can be monitored by fluorescence spectroscopy using excitation and emission wavelengths of 500 and 536 nm, respectively, or by absorbance spectroscopy at 500 nm ($\epsilon = 78,800 \text{ M}^{-1}\text{cm}^{-1}$). DHR has been used to investigate reactive oxygen intermediates produced by endothelial cells, eosinophils, and reactive microglia.

CAS number

109244-58-8

Molecular Mass

346.38

Formula

C₂₁H₁₈N₂O₃

Ex(nm)

507

Em(nm)

529

Solvent

DMSO

Storage

Store at -20°C in the dark. Dessicated.

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