

2',7'-Dichlorodihydrofluorescein diacetate

Cat. No. DYE-169 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description

DCFH (commonly known as dichlorofluorescein) is used as an indicator of peroxynitrite formation. DCFH is supplied as the diacetate ester. Following enzymatic or base-catalyzed cleavage of the diacetate groups, it is readily oxidized to the highly fluorescent product dichlorofluorescein (DHF). Peroxynitrite is an efficient mediator of this oxidation and neither NO, superoxide, nor hydrogen peroxide alone appear to oxidize DCFH. Formation of DHF can be monitored by fluorescence spectroscopy using excitation and emission wavelengths of 502 and 523 nm, respectively, or by absorbance spectroscopy at 500 nm ($\epsilon = 59,500 \text{ M}^{-1}\text{cm}^{-1}$).

CAS number

4091-99-0

Molecular Mass

487.29

Formula

C₂₄H₁₆Cl₂O₇

Ex(nm)

504

Em(nm)

529

Solvent

DMSO

Storage

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

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