

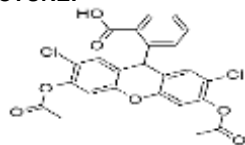
## PRODUCT: 2,7-Dichloro-dihydrofluorescein Diacetate

**ALTERNATE NAME:** H2DCFDA; 2',7'-dichlorofluorescein diacetate

**CATALOG NUMBER:** B1871-5,25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>24</sub>H<sub>16</sub>Cl<sub>2</sub>O<sub>7</sub>

**MOLECULAR WEIGHT:** 487.29

**CAS NUMBER:** 4091-99-0

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (>40 mg/ml)

**PURITY:** ≥95% by HPLC

**STORAGE:** Store at -20 °C. Protect from air and light

**DESCRIPTION:** 2,7-Dichloro-dihydrofluorescein diacetate is a cell-permeable, fluorescent ROS (Reactive Oxygen Species) indicator that becomes fluorescent when oxidized. 2',7'-dichlorodihydrofluorescein diacetate might be reactive toward a broad range of oxidizing reactions that may be increased during intracellular oxidant stress. This probe is widely used to monitoring cellular redox processes.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Ascorbic Acid Assay Kit (**Cat. No. K661-100**)

Ascorbic Acid Assay Kit II (FRASC) (**Cat. No. K671-100**)

Caffeic Acid (**Cat. No. 2006-100, 500**)

Carnosic Acid (**Cat. No. 2075-5, 25**)

Catalase Assay kit (**Cat. No. K773-100**)

Deferoxamine Mesylate (**1883-500, 1000**)

(-)-Epigallocatechin gallate (**Cat. No. 1841-50**)

FeTPPS (**Cat. No. 2065-25, 100**)

Glutathione (GSH/GSSG Total) Assay Kit (**Cat. No. K264-100**)

Glutathione Colorimetric Assay Kit (**Cat. No. K261-100**)

Glutathione Fluorometric Assay Kit (**Cat. No. K251-100**)

Glutathione Peroxidase Assay Kit (**Cat. No. K762-100**)

Glutathione Reductase Assay Kit (**Cat. No. K761-100**)

GST Colorimetric Assay Kit (**Cat. No. K263-100**)

GST Fluorometric Assay Kit (**Cat. No. K263-100**)

Hydrogen Peroxide Assay Kit (**Cat. No. K265-100**)

Luteolin (**Cat. No. 2005-5, 25**)

MnTBAP Chloride (**Cat. No. 2058-10, 50**)

MnTMPyp Pentachloride (**Cat. No. 2056-10, 50**)

Nitric Oxide Colorimetric Assay Kit (**Cat. No. K263-100**)

Nitric Oxide Fluorometric Assay Kit (**Cat. No. K252-100**)

Piceatannol (**Cat. No. 2072-5, 25**)

Piperlongumine (**Cat. No. 1919-10, 50**)

Piperlonguminine (**Cat. No. 1988-10, 50**)

Pterostilbene (**Cat. No. 2073-5, 25**)

Resveratrol (**Cat. No. 1758-100, 500**)

Rhapontigenin (**Cat. No. 2074-1, 5**)

Rosmarinic Acid (**Cat. No. 1843-50, 250**)

SOD Activity Assay Kit (**Cat. No. K335-100**)

Thioredoxin Reductase Assay Kit (**Cat. No. K763-100**)

Tiliroside (**Cat. No. 1879-1,5**)

Total Antioxidant Capacity Assay Kit (**Cat. No. K274-100**)

Trolox (**Cat. No. 2076-50, 250**)

Uric Acid Assay Kit (**Cat. No. K608-100**)

Xanthine Oxidase Assay Kit (**Cat. No. K710-100**)

**USAGE:** *FOR RESEARCH USE ONLY! Not to be used in humans*