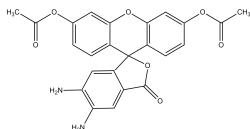


## Product: EZSolution™ DAF-2 Diacetate

**ALTERNATE NAME:** 4,5-Diaminofluorescein diacetate; 2-(3,6-diacetyloxy-4,5-diamino-9H-xanthen-9-yl)-benzoic acid; DAF-2 DA

**CATALOG #:** 2753-100, 500, 1000

**AMOUNT:** 100 µg, 500 µg, 1 mg



**STRUCTURE:**

**MOLECULAR FORMULA:** C<sub>24</sub>H<sub>18</sub>N<sub>2</sub>O<sub>7</sub>

**MOLECULAR WEIGHT:** 446.41

**CAS NUMBER:** 205391-02-2

**APPEARANCE:** Liquid

**FORMULATION:** In DMSO (5 mM)

**PURITY:** ≥98% by HPLC

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

**DESCRIPTION:** DAF-2 diacetate is a cell-permeable derivative of DAF-2 (Cat. No. 2752) and a very useful indicator of nitric oxide (NO). Upon entry into the cell, DAF-2 diacetate is converted into the less cell-permeable DAF-2 by cellular esterases thus preventing loss of signal due to diffusion of the molecule from the cell. In the presence of oxygen, DAF-2 reacts with NO to yield the highly fluorescent triazolofluorescein (DAF-2T). Can be used for the fluorimetric detection of nitric oxide and in fluorescence microscopy to measure real-time changes in nitric oxide levels in vivo.

**REFERENCE:** Kojima, H., *et al.* (1998). *Chem. Pharm. Bull.* **46**, 373-375.

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

**RELATED PRODUCTS:**

1400W hydrochloride (Cat. No. 2055-5, 25)

BEC (Cat. No. 2359-1, 5)

EZolution™ DAF-2 (Cat. No. 2752-100, 500, 1000)

EZSolution™ DAF-2 Diacetate (Cat. No. 2753-100, 500, 1000)

L-NAME hydrochloride (Cat. No. 2356-100, 500, 1000)

L-NMMA acetate (Cat. No. 2348-5, 25, 100)

Nitric Oxide Colorimetric Assay Kit (Cat. No. K262-200)

Nitric Oxide Fluorometric Assay Kit (Cat. No. K252-20)

7-Nitroindazole (Cat. No. 2360-50, 250)

**FOR RESEARCH USE ONLY! Not to be used on humans.**