



PRODUCT DATA SHEET

Product: DAF-2 DA (cell permeable)

Cat. No.: BC-034 (1 mg)

Chemical Name:

4,5-Diaminofluorescein diacetate

Formula:

$C_{24}H_{18}N_2O_7$

Molecular Weight:

446.4

Description:

Cell permeable analog of DAF-2 that is hydrolyzed to DAF-2 by intracellular esterases. Can be used in fluorescence microscopy to measure real-time changes in NO levels *in vivo*.

Purity:

≥99%

Solubility:

Soluble in DMSO

Protocol:

Assay (wavelength): Excitation max. 495 nm, emission max. 515 nm.

Preparation of product: Prepare a 500-fold dilution (~10 μ M) in phosphate buffer (0.1M phosphate, pH 7.4) at time of use. [Note: The dilution buffer and working concentration should be determined according to the desired application.]

Format:

Liquid. 1 mg in 0.45 mL DMSO. The reagent is supplied at a concentration of ~5mM.

Storage and Stability:

Keep cool and dry at -20°C. Protect from light. Use product immediately after dilution and do not store the solution for later use. Keep under inert gas.

After opening, the unused portion of the reagent should be aliquoted (10 μ L size) in separate tubes and stored at -20°C, protected from light. The dilution buffer should have a pH of 7.0-7.5. Bovine serum albumin (BSA), phenol red and amines may affect the fluorescence and thus should be used with caution.

Caution / Handling:

Do not take internally. Wear gloves and mask when handling this product. Avoid contact by all modes of exposure.

If you are not fully trained or are unaware of the hazards involved, do not use these compounds.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.