

CERTIFICATE of ANALYSIS

PRODUCT: **DAF-2 DA (cell permeable)**
[4,5-Diaminofluorescein . diacetate]
C₂₄H₁₈N₂O₇, M.W. 446.4

PRODUCT NUMBER: D-1149

LOT NUMBER: A10064

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 nitric oxide (NO) levels *in vivo* (Ex(max): 495nm; Em(max): 515nm). *Not for sale in Japan.*

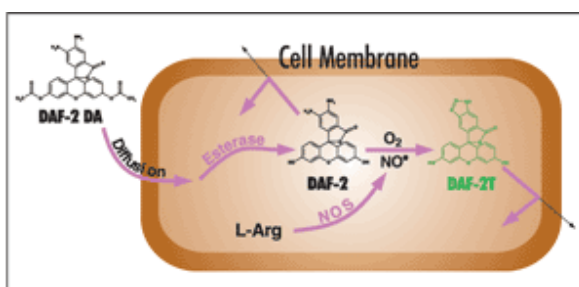


Figure: The cell-permeable diacetate derivative, DAF-2 DA, is used to load cells. Subsequent hydrolysis by cytosolic esterases releases DAF-2, which is relatively non-fluorescent at physiological pH. However, in the presence of NO and O₂, DAF-2 is converted to the fluorescent triazole derivative, DAF-2T.

APPEARANCE: Liquid

PURITY: ≥99%

FORMULATION: 1 mg in 0.45 ml DMSO

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CONCENTRATION: ~ 5mM

USE/STABILITY: Prepare 500-fold dilution (~ 10 μ M) in phosphate buffer (0.1 M phosphate, pH 7.4) immediately before use. BSA, phenol red and amines may affect the fluorescence and must be used with caution. Do not store the dilutions.

STORAGE & HANDLING: Store at -20°C. Keep under inert gas. After opening, prepare aliquots and store at -20°C.

PROTECT FROM LIGHT!

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT