

DAF-2 DA

Chemical Properties

CAS No. : 205391-02-2

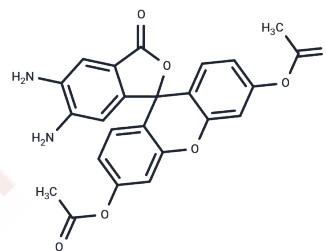
Formula: C₂₄H₁₈N₂O₇

Molecular Weight: 446.41

Storage: Keep away from direct sunlight

Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DAF-2 DA (5,6-Diaminofluorescein diacetate) is a cell-permeable fluorescent probe used for detecting nitric oxide (NO), requiring use in a serum-free environment free from phenol red interference. It has an excitation wavelength of 491 nm and an emission wavelength of 513 nm, with a commonly used working concentration of 1-10 μ M.
Targets(IC50)	Others
In vitro	Steps for assessing total mitochondrial nitric oxide levels: 1. SH-SY5Y cells were seeded in duplicate at a density of 5×10^3 cells/well in black 96-well cell culture plates. 2. After gelsemium treatment, cells were incubated with DAF-2 DA (10 μ M, 15 minutes) on an orbital shaker at room temperature in the dark. 3. After washing twice with HBSS (Sigma) using a Cytation 3 cell imaging multi-function microplate reader, the formation of a green fluorescent product was detected at 485 nm (excitation)/538 nm (emission). The fluorescence intensity is the total cellular nitric oxide level. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2401 mL	11.2005 mL	22.4009 mL
5 mM	0.448 mL	2.2401 mL	4.4802 mL
10 mM	0.224 mL	1.120 mL	2.2401 mL
50 mM	0.0448 mL	0.224 mL	0.448 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wany A, et al. Localization of Nitric Oxide in Wheat Roots by DAF Fluorescence. *Methods Mol Biol.* 2016;1424:39-47.

Lejri I, et al. Gelsemium low doses protect against serum deprivation-induced stress on mitochondria in neuronal cells. *J Ethnopharmacol.* 2025 Jan 10;336:118714.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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