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DAF-FM (4-amino-5-methylamino-2',7'-difluorofluorescein)

http://hk.lumiprobe.com/p/diaminofluorescein-daf-fm

DAF-FM (4-amino-5-methylamino-2′,7′-difluorofluorescein) is a cell-impermeant, fluorescent probe for detecting and quantifying low concentrations of nitric oxide (NO). DAF-FM does not need to be activated by cytosolic enzymes and is suitable to detect NO in extracellular matrix.

The fluorescence quantum yield of DAF-FM is \sim 0.005, but it increases about 160-fold to \sim 0.81 after reacting with NO and forming a fluorescent benzotriazole (excitation/emission maxima at 495/515 nm).

The NO detection limit of DAF-FM (~3 nM) is more sensitive than that of DAF-2 (~5 nM). The fluorescence of the NO adduct of DAF-FM is independent of pH above pH 5.5. Moreover, the NO adduct of DAF-FM demonstrates a significantly enhanced photostability compared to that of DAF-2, ensuring reliable results and additional time for imaging.

DAF-FM should be dissolved in DMSO and then used to prepare a working solution. Buffers containing bovine serum albumin (BSA) or phenol red can affect the fluorescence and should be used cautiously.

The cell-permeant version of DAF FM - DAF-FM DA is also available.

外观: 黄色固體 分子量: **412.35**

CAS 编号: 254109-20-1 分子式: C₂₁H₁₄F₂N₂O₅

溶解度: 適合甲醇、DMSO、DMF和水;水有限;乙腈和二氯甲烷含量低

质量控制: NMR ¹H 和 HPLC-MS (90+%)

储存条件: 收到後 -20°C 避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

法律声明:本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試,且未

經明示或暗示授權用於其他任何用途,包括但不限於體外診斷、人類或動物用途,以及商業用途。