

## **Lumiprobe Corporation**

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

http://cn.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.

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黄色固体
分子量:
  412.35
CAS 254109-20-1
号:
分
  C_{21}H_{14}F_2N_2O_5
式:
溶
  在甲醇、DMSO、DMF和水中效果良好;在水中效果有限;在乙腈和二氯甲烷中效果较差
度:
质
  NMR 1H 和 HPLC-MS (90+%)
制:
储
  收到后在 -20°C 黑暗条件下可保存 24 个月。运输: 室温下最多可保存 3 周。干燥。
条件:
  本产品仅供研究目的提供和销售。本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试,且未经明示或暗示授权用于其他任何用途,包括但不限于体外诊
   断、人类或动物用途,以及商业用途。
明:
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