

For Research Use Only

Diaminofluorescein-FM (DAF-FM)

Table 1. Product information

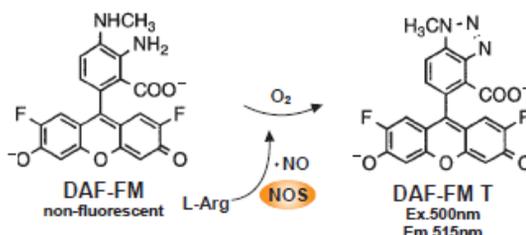
Code no.	Product	Contents	Storage	Stability
SK1003-01	Diaminofluorescein-FM (DAF-FM)	1 mg (in DMSO 0.35 mL)	Freeze-preservation, desiccate and protect from light.	1 year (unopened)

1. About Diaminofluorescein-FM (DAF-FM)

- High fluorescence intensity even at low pH (around pH 6) conditions.
- Real time observation of NO generated by tissues or cells is available.
- Low autofluorescence from the living sample because the reagent is excited by the visible light.
- Low damage to the cells because the reagent is excited by the visible light.
- Needless to change pH for the measurement because the reagent captures NO and makes fluorescence under neutral pH condition.
- High sensitivity and selectivity.

2. Principle of the measurement

Amino groups of **Diaminofluorescein-FM (DAF-FM)** capture NO, and the **DAF-FM** makes fluorescence of green light with wave length of 515 nm when it's excited by the light with wavelength of 500 nm.



3. Contents

Diaminofluorescein-FM (DAF-FM) 1mg (in DMSO 0.35 mL)

C₂₁H₁₄F₂N₂O₅ Mw: 412.34

4. Preparation of Reagent

Density of the provided sample is 7 mmol/L in DMSO. Dilute 1000 times with neutral buffer before use.

5. Reference

1. Kojima H, Urano Y, Kikuchi K, Higuchi T, Hirata Y, Nagano T *Angew Chem Int Ed* 1999; **38**: 3209-3212.
2. Kojima H, Hirata M, Kikuchi K, Kudo Y, Nagano T *Journal of Neurochemistry*,2001; **76**: 1404-1410.

