

Product Name: Fluo-4 AM

Catalog No.: 6255

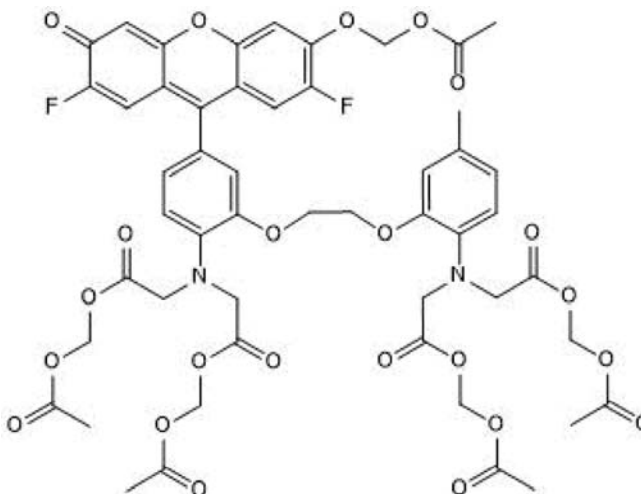
Batch No.: 1

CAS Number: 273221-67-3

IUPAC Name: *N*-[4-[6-[(Acetyloxy)methoxy]-2,7-difluoro-3-oxo-3H-xanthen-9-yl]-2-[2-[2-[bis[2-[(acetyloxy)methoxy]-2-oxoethyl]amino]-5-methylphenoxy]ethoxy]phenyl]-*N*-[2-[(acetyloxy)methoxy]-2-oxoethyl]glycine (acetyloxy)methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅₁ H ₅₀ F ₂ N ₂ O ₂₃
Batch Molecular Weight:	1096.95
Physical Appearance:	Orange solid
Solubility:	DMSO to 1 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.5% purity
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Cell-permeable, fluorescent Ca²⁺ indicator (K_d Ca²⁺ = 345 nm). Displays high fluorescence emission. Excitation/emission λ 494/516 nm.

Physical and Chemical Properties:

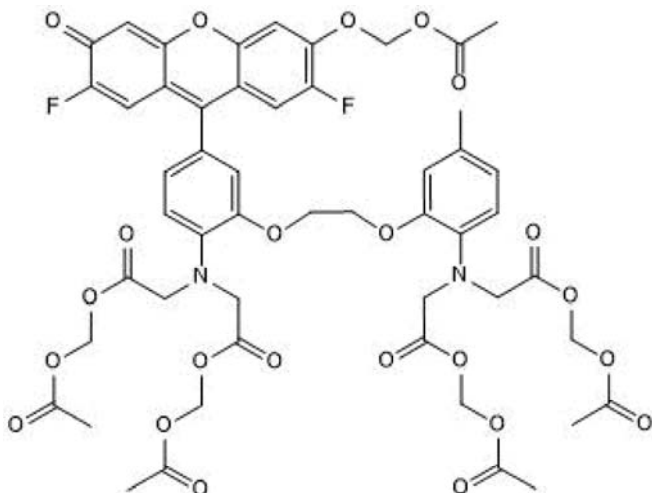
Batch Molecular Formula: C₅₁H₅₀F₂N₂O₂₃

Batch Molecular Weight: 1096.95

Physical Appearance: Orange solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 1 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gee *et al* (2000) Chemical and physiological characterization of fluo-4 Ca²⁺-indicator dyes. *Cell Calcium*. **27** 97. PMID: 10756976.

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