

Product Name: OG 488 BAPTA-1 AM

Catalog No.: 6256

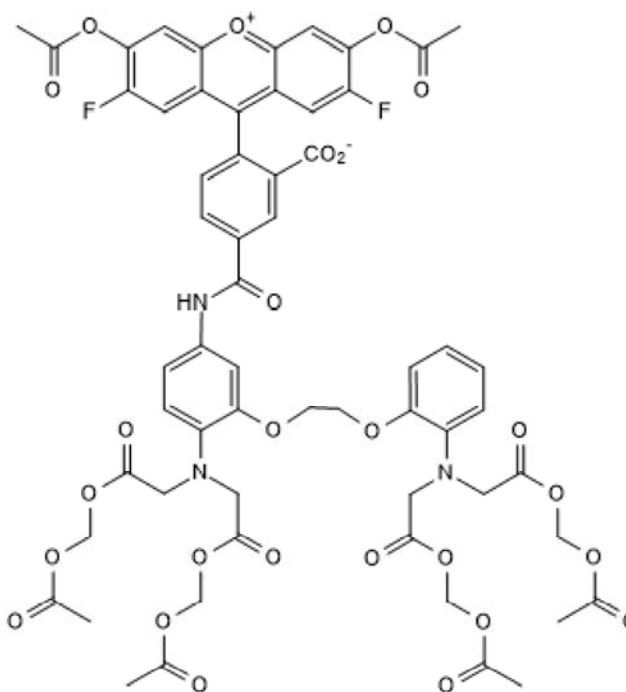
Batch No.: 1

CAS Number: 244167-57-5

IUPAC Name: *N*-[2-[(Acetyloxy)methoxy]-2-oxoethyl]-*N*-[4-[[[3',6'-bis(acetyloxy)-2',7'-difluoro-3-oxospiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-5-yl]carbonyl]amino]-2-[2-[2-[bis[2-[(acetyloxy)methoxy]-2-oxoethyl]amino]phenoxy]ethoxy]phenyl]glycine (acetyloxy)methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅₉ H ₅₃ F ₂ N ₃ O ₂₆
Batch Molecular Weight:	1258.06
Physical Appearance:	Light yellow solid
Solubility:	DMSO to 1 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 92% 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, fluorescently labeled Ca²⁺ indicator. Composed of a green fluorescent probe (OG 488, Cat. No. 6257) conjugated to a cell-permeable Ca²⁺ chelator (BAPTA AM, Cat. No. 2787). Fluorescent intensity increases approximately 14-fold from resting intensity, upon Ca²⁺ binding. Displays uniform cellular distribution with minimal subcellular compartmentalization. Excitation/emission λ 494/523 nm.

Physical and Chemical Properties:

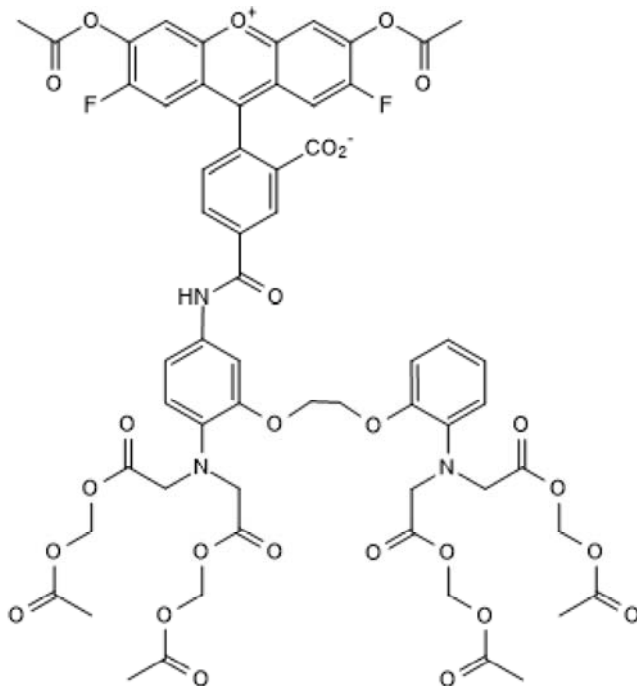
Batch Molecular Formula: C₅₉H₅₃F₂N₃O₂₆

Batch Molecular Weight: 1258.06

Physical Appearance: Light yellow solid

Minimum Purity: >90%

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:

Thomas et al (2000) A comparison of fluorescent Ca²⁺ indicator properties and their use in measuring elementary and global Ca²⁺ signals *Cell Calcium* **28** 213. PMID: 11032777.

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