

**Product Name:** OG 488 BAPTA-1 AM

**Catalog No.:** 6256

**Batch No.:** 3

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

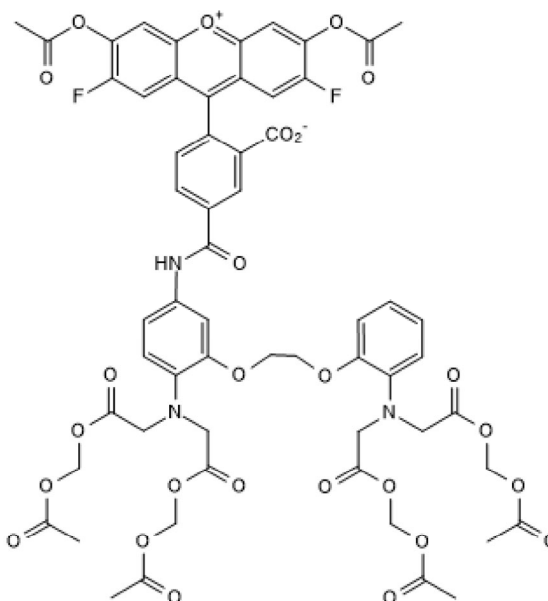
**Batch Molecular Formula:** C<sub>59</sub>H<sub>53</sub>F<sub>2</sub>N<sub>3</sub>O<sub>26</sub>

**Batch Molecular Weight:** 1258.06

**Solubility:** DMSO to 1 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 92.0% purity at 254 nm

**UV Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 300 nm (Ethyl Acetate)

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

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**Description:**

OG 488 BAPTA-1 AM is a cell-permeable, fluorescently labeled Ca<sup>2+</sup> indicator (K<sub>d</sub> =170 nM). Composed of a green fluorescent probe (OG 488, Cat. No. 6257) conjugated to a cell-permeable Ca<sup>2+</sup> chelator (BAPTA AM, Cat. No. 2787). Fluorescent intensity increases approximately 14-fold from resting intensity, upon Ca<sup>2+</sup> binding. Displays uniform cellular distribution with minimal subcellular compartmentalization. Excitation/emission λ 494/523 nm.

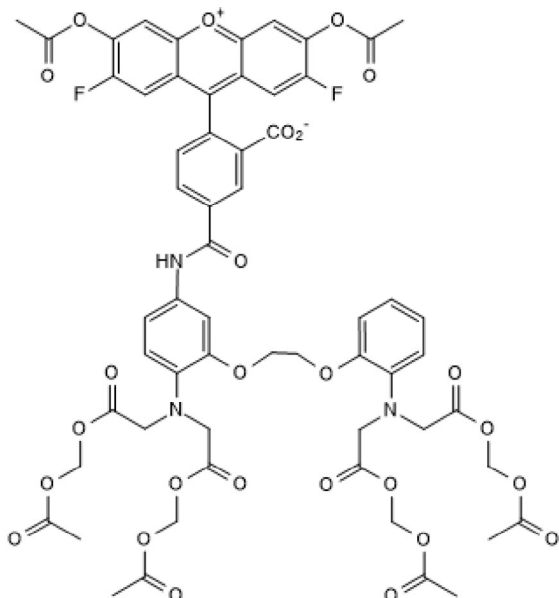
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>59</sub>H<sub>53</sub>F<sub>2</sub>N<sub>3</sub>O<sub>26</sub>

Batch Molecular Weight: 1258.06

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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 Ca<sup>2+</sup> indicator properties and their use in measuring elementary and global Ca<sup>2+</sup> signals *Cell Calcium* **28** 213. PMID: 11032777.

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