

**Product Name:** BAPTA AM

**Catalog No.:** 2787

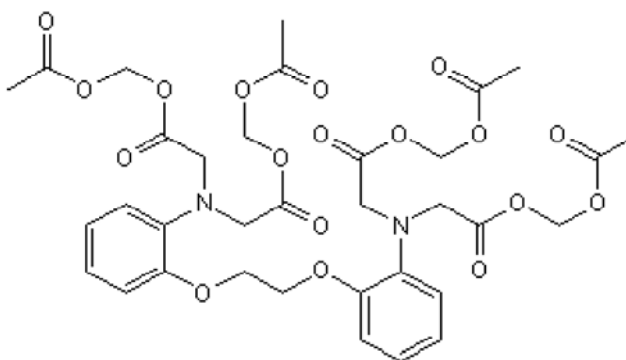
**Batch No.:** 6

CAS Number: 126150-97-8

IUPAC Name: 1,2-Bis(2-aminophenoxy)ethane-*N,N,N,N*-tetraacetic acid tetrakis(acetoxymethyl ester)

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>34</sub>H<sub>40</sub>N<sub>2</sub>O<sub>18</sub>  
**Batch Molecular Weight:** 764.68  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 30 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows >98.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.4	5.27	3.66
Found	53.68	5.34	3.68

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

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**Description:**

Selective calcium chelator that is the cell-permeable analog of BAPTA (Cat. No. 2786). Blocks hK<sub>v</sub>1.5, hK<sub>v</sub>11.1 (hERG) and hK<sub>v</sub>1.3 channels (K<sub>i</sub> values are 1.23, 1.30 and 1.45 μM respectively). Displays antithrombotic activity in vitro. F 127 (Cat. No. 6253) for the solubilization of BAPTA AM is also available.

**Physical and Chemical Properties:**

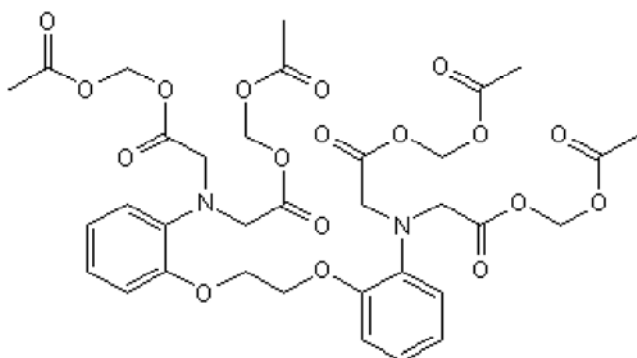
Batch Molecular Formula: C<sub>34</sub>H<sub>40</sub>N<sub>2</sub>O<sub>18</sub>

Batch Molecular Weight: 764.68

Physical Appearance: White 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 30 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:**

**Tang et al (2007)** The membrane permeable calcium chelator BAPTA-AM directly blocks human ether a-go-go-related gene potassium channels stably expressed in HEK 293 cells. *Biochem.Pharmacol.* **74** 1596. PMID: 17826747.

**Heilporn et al (1994)** Synthesis of BAPTA-AM analogues capable of enhancing the vascular production of prostacyclin. *Bull.Soc.Chim.Belg.* **103** 309.

**Raspe et al (1989)** Enhanced release of prostacyclin from quin 2-loaded endothelial cells. *Eur.J.Pharmacol.* **163** 345. PMID: 2498111.

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**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel:+1 612 379 2956