

Product Name: BAPTA AM

Catalog No.: 2787

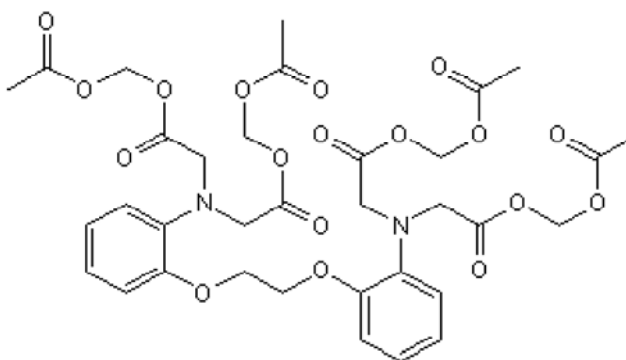
Batch No.: 6

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: C₃₄H₄₀N₂O₁₈
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_f = 0.5 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows >98.2% purity
¹H 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

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

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Description:

Selective calcium chelator that is the cell-permeable analog of BAPTA (Cat. No. 2786). Blocks hK_v1.5, hK_v11.1 (hERG) and hK_v1.3 channels (K_i 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:

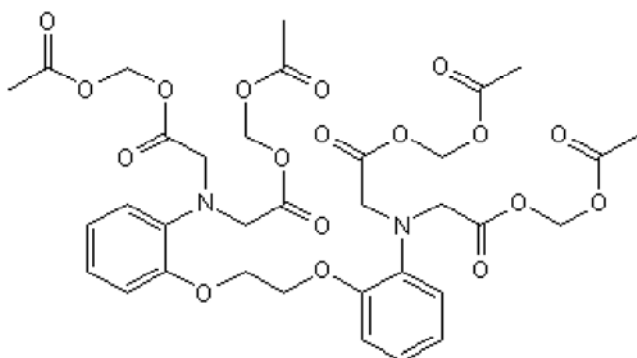
Batch Molecular Formula: C₃₄H₄₀N₂O₁₈

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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