## **Product Specification Sheet**

**Product Name:** BAPTA-AM

Catalog Number: C2278

**Technical information:** 

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

CAS #: 126150-97-8

Molecular Weight: 764.68

Purity: > 98%

anco: White coli

Appearance: White solid

Solubility: Soluble in DMSO up to 22 mM

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

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months

under proper storage condition.

Handling: • To make 10 mM stock solution, add 0.131mL of DMSO for each mg of BAPTA-AM

• For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum

sample recovery.

**Biological Activity:** BAPTA-AM is a rationally-designed relative of the well-known chelator EGTA. BAPTA-AM and its

analogs have a 100-fold greater affinity for Ca2+ over Mg2+, are resistant to pH changes, and are faster in uptake and release of Ca2+. [1] BAPTA-AM, the acetic acid methyl ester analog of the original BAPTA, offers greater cell permeability and is known to inactivate protein kinase C.

BAPTA-AM

Reference: 1. Tsien, R., New calcium indicators and buffers with high selectivity against magnesium and protons: design,

synthesis, and properties of prototype structures. Biochemistry, 1980, 19, 2396-2404. Pubmed ID: 6770893

To reorder: <a href="http://www.cellagentech.com/BAPTA-AM/">http://www.cellagentech.com/BAPTA-AM/</a>

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