

Certificate of Analysis

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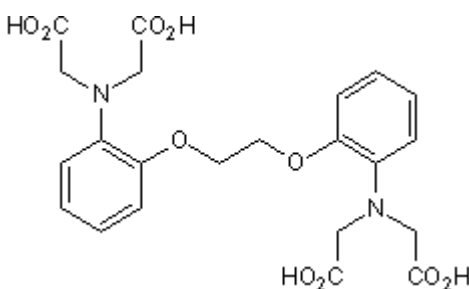
Product Name: BAPTA
CAS Number: 85233-19-8
IUPAC Name: 1,2-Bis(2-aminophenoxy)ethane-*N,N,N,N*-tetraacetic acid

Catalog No.: 2786

Batch No.: 5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{24}N_2O_{10}$
Batch Molecular Weight: 476.23
Physical Appearance: White solid
Solubility: sodium bicarbonate (0.3N) to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 55.46 | 5.08 | 5.88 |
| Found | 55.28 | 4.83 | 5.9 |

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

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Description:

Selective calcium chelator.

Physical and Chemical Properties:

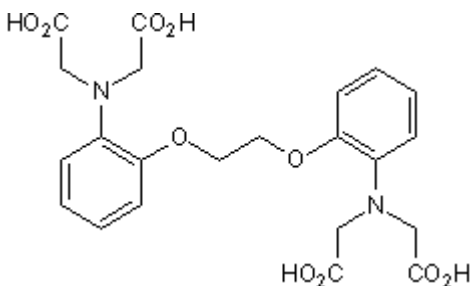
Batch Molecular Formula: C₂₂H₂₄N₂O₁₀

Batch Molecular Weight: 476.23

Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

sodium bicarbonate (0.3N) to 50 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:

Hardie (2005) Inhibition of phospholipase C activity in *Drosophila* photoreceptors by 1,2-bis(2-aminophenoxy)ethane *N,N,N,N*-tetraacetic acid (BAPTA) and di-bromo BAPTA. *Cell Calcium* **38** 547. PMID: 16140375.

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