bio-techne
TOCRIS

Print Date: Nov 5th 2024

Certificate of Analysis

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Product Name: **BAPTA** **Catalog No.: 2786** **Batch No.: 6**

CAS Number: 85233-19-8

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{24}N_2O_{10}$

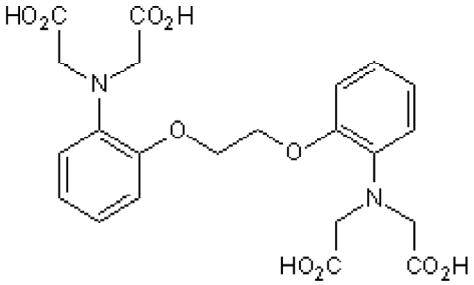
Batch Molecular Weight: 476.23

Physical Appearance: Off-white solid

Solubility: sodium bicarbonate (0.3N) to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.46	5.08	5.88
Found	54.83	4.88	5.93

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CAS Number: 85233-19-8

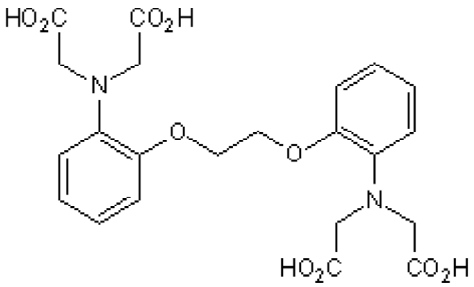
IUPAC Name: 1,2-Bis(2-aminophenoxy)ethane-*N*,*N*,*N*',*N*'-tetraacetic acid

Description:
BAPTA is a selective calcium chelator.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{22}H_{24}N_2O_{10}$
Batch Molecular Weight: 476.23
Physical Appearance: Off-white solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:
sodium bicarbonate (0.3N) to 10 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:

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.