Product Name: BAPTA
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: \( \text{C}_{22}\text{H}_{24}\text{N}_{2}\text{O}_{10} \)
Batch Molecular Weight: 476.23
Physical Appearance: White solid
Solubility: sodium bicarbonate (0.3N) to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
\(^1\text{H} \text{NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>55.46</td>
<td>5.08</td>
<td>5.88</td>
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<tr>
<td>Found</td>
<td>55.28</td>
<td>4.83</td>
<td>5.9</td>
</tr>
</tbody>
</table>
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CAS Number: 85233-19-8

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

Description:
Selective calcium chelator.

Physical and Chemical Properties:
Batch Molecular Formula: C_{22}H_{24}N_{2}O_{10}
Batch Molecular Weight: 476.23
Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:

![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.