



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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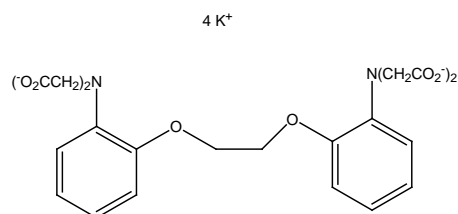
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## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** BAPTA, tetrapotassium salt**CATALOG #** 50002**MOLECULAR INFORMATION:** C<sub>23</sub>H<sub>24</sub>K<sub>4</sub>N<sub>2</sub>O<sub>10</sub>  
MWt: 656.85**PROPERTIES:**

**Color & Form** White solid  
**Solubility** Soluble in water (>10mg/mL)  
**Purity** >95% by TLC  
**Absorption/Emission** N/A  
**Extinction Coefficient** N/A

**STORAGE AND HANDLING:** Store at ≤ 4°C.**APPLICATION:**

BAPTA and its derivatives are calcium chelators that are commonly used to form calcium buffers with well-defined calcium concentrations. By injecting the chelators into cells or by incubating cells with the AM ester form of the chelators, one can control the cytosolic calcium concentration, an important means to study the roles of calcium. Key advantages of these calcium chelators include relative insensitivity toward intracellular pH change and fast release of calcium. Biotium offers several BAPTA chelators with calcium dissociation constants covering the biologically significant range from 10<sup>-7</sup> to 10<sup>-2</sup> M.

**Physical properties of BAPTA chelators**

| Chelator Name           | R <sub>1</sub>  | R <sub>2</sub>  | R <sub>3</sub>  | Mwt* | K <sub>d</sub> (μM)**                                      |
|-------------------------|-----------------|-----------------|-----------------|------|--|
| BAPTA                   | H               | H               | H               | 477  | No Mg <sup>2+</sup> : 0.59<br>1 mM Mg <sup>2+</sup> : 0.70 |
| 5,5'-Dibromo BAPTA      | H               | Br              | Br              | 635  | No Mg <sup>2+</sup> : 3.6                                  |
| 5,5'-Difluoro BAPTA     | H               | F               | F               | 513  | No Mg <sup>2+</sup> : 0.61<br>1 mM Mg <sup>2+</sup> : 0.72 |
| 5,5'-Dimethyl BAPTA     | H               | CH <sub>3</sub> | CH <sub>3</sub> | 505  | No Mg <sup>2+</sup> : 0.16<br>1 mM Mg <sup>2+</sup> : 0.44 |
| 5-Methyl-5'-nitro BAPTA | H               | NO <sub>2</sub> | CH <sub>3</sub> | 536  | No Mg <sup>2+</sup> : 53                                   |
| 5-Mononitro BAPTA       | H               | NO <sub>2</sub> | H               | 522  | No Mg <sup>2+</sup> : 94                                   |
| 4-Trifluoromethyl BAPTA | CF <sub>3</sub> | H               | H               | 545  | No Mg <sup>2+</sup> : 0.57                                 |

## RELATED PRODUCTS

| Cat. No. | Product Name                                 | Unit Size | Unit Price \$<br>(1-4 units) | Unit Price \$<br>(>4 units) |
|----------|--|-----------|------------------------------|-----------------------------|
| 50000    | BAPTA, AM ester                              | 25mg      | 100.00                       | 90.00                       |
| 50000-1  | BAPTA, AM ester                              | 20 x 1mg  | 125.00                       | 112.50                      |
| 50001    | BAPTA, tetraacesium salt                     | 1g        | 150.00                       | 135.00                      |
| 50002    | BAPTA, tetrapotassium salt                   | 1g        | 90.00                        | 81.00                       |
| 50003    | BAPTA, tetrasodium salt                      | 1g        | 90.00                        | 81.00                       |
| 50004    | 5,5'-Dibromo BAPTA, tetrapotassium salt      | 100mg     | 95.00                        | 85.50                       |
| 50005    | 5,5'-Difluoro BAPTA, AM ester                | 25mg      | 160.00                       | 144.00                      |
| 50006    | 5,5'-Difluoro BAPTA, tetrapotassium salt     | 100mg     | 130.00                       | 117.00                      |
| 50007    | 5,5'-Dimethyl BAPTA, AM ester                | 25mg      | 125.00                       | 112.50                      |
| 50008    | 5,5'-Dimethyl BAPTA, tetrapotassium salt     | 100mg     | 60.00                        | 54.00                       |
| 50009    | 5-methyl-5'-nitro BAPTA, tetrapotassium salt | 10mg      | 150.00                       | 135.00                      |
| 50017    | 5-mononitro BAPTA, tetrapotassium salt       | 10mg      | 150.00                       | 135.00                      |

**TOXICITY:** Not established. Not listed by NTP, IARC or OSHA.

**FIRST AID:** Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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