



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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

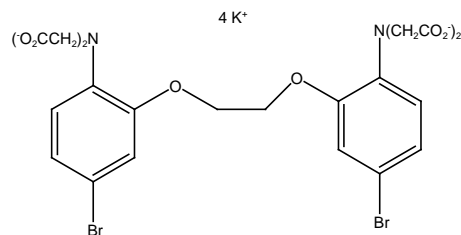
F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: 5,5'-Dibromo BAPTA, tetrapotassium salt**CATALOG #** 50004**MOLECULAR INFORMATION:** C₂₂H₁₈Br₂K₄N₂O₁
0
MWt: 786.59**PROPERTIES:**

Color & Form White to off-white solid
Solubility Soluble in water
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 10⁻⁷ to 10⁻² M.

Physical properties of BAPTA chelators

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

RELATED PRODUCTS

| Cat. No. | Product Name | Unit Size | Unit Price \$ (1-4 units) | Unit Price \$ (>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.

Disclaimer: *Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.*