



LKT Laboratories, Inc.

4-bromo-A23187

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Product Information

Product ID A0101

CAS No. 76455-48-6

Chemical Name

Synonym 4-Bromo-A-23187, 4-BrA23187, 4-Bra23187

Formula $C_{29}H_{36}BrN_3O_6$

Formula Wt. 602.52

Melting Point

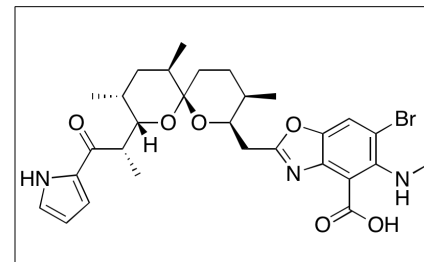
Purity $\geq 98\%$

Solubility

Store Temp 4° C

Ship Temp Ambient

Description This compound is a non-fluorescent halogenated analog of A23187. A23187 is a Ca^{2+} ionophore that exhibits pro-inflammatory and allergic activities. In cardiomyocytes, A23187 induces formation of endothelial microvesicles, increasing leakage of lactate dehydrogenase and decreasing cell viability. A23187 also induces mast cell degranulation and increases production of TNF- α . In spermatozoa, this compound induces the acrosome reaction, allowing fertilization to occur in the absence of PKA activation.



Bulk quantities available upon request

Product ID	Size
A0101	1 mg
A0101	5 mg

References Kim DY, Kang TB, Shim DW, et al. Emodin attenuates A23187-induced mast cell degranulation and tumor necrosis factor- α secretion through protein kinase C and I κ B kinase 2 signaling. *Eur J Pharmacol.* 2014 Jan 15;723:501-6. PMID: 24239713.

Shang M, Zhang Q, Zhang MX, et al. Effects of endothelial microvesicles induced by A23187 on H9c2 cardiomyocytes. *Zhongguo Ying Yong Sheng Li Xue Za Zhi.* 2013 Nov;29(6):559-64. PMID: 24654540.

Tateno H, Krapf D, Hino T, et al. Ca^{2+} ionophore A23187 can make mouse spermatozoa capable of fertilizing in vitro without activation of cAMP-dependent phosphorylation pathways. *Proc Natl Acad Sci U S A.* 2013 Nov 12;110(46):18543-8. PMID: 24128762.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.