

Product Data Sheet

Product Name: 4-bromo A23187

Cat. No.: GC42346

Chemical Properties

Cas. No. 76455-48-6

Chemical Name 6-bromo-5-(methylamino)-2-[[[(2R,3R,6S,8S,9R,11R)-3,9,11-trimethyl-8-[(1S)-1-methyl-2-oxo-2-(1H-pyrrol-2-yl)ethyl]-1,7-dioxaspiro[5.5]undec-2-yl]methyl]-4-benzoxazolecarboxylic acid

SMILES O=C(C1=C2N=C(C[C@H]3O[C@]4(O[C@H]([C@H](C)C(C5=CC=CN5)=O)[C@H](C)C[C@H]4C)CC[C@H]3C)OC2=CC(Br)=C1NC)O

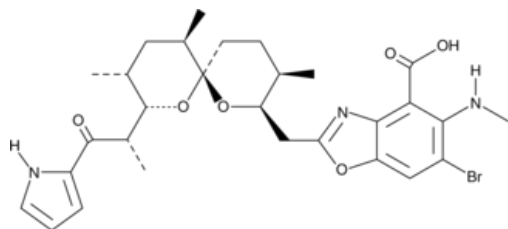
Formula C₂₉H₃₆BrN₃O₆ M.Wt 602.5

Solubility 1mg/mL in DMSO, 10mg/mL in DMF Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

4-bromo A23187 is a halogenated analog of the highly selective calcium ionophore A23187. 4-bromo A23187 is non-fluorescent.[1] As a result, it is often used in experiments where fluorescent probes are employed.[2],[3]

Reference:

[1]. Deber, C.M., Tom-Kun, J., Mack, E., et al. Bromo-A23187: A nonfluorescent calcium ionophore for use with fluorescent probes. *Anal.Biochem.* 146(2), 349-352 (1985).

[2]. Ducreux, S., Gregory, P., and Schwaller, B. Inverse regulation of the cytosolic Ca²⁺ buffer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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parvalbumin and mitochondrial volume in muscle cells via SIRT1/PGC-1 α axis. PLoS One 7(9), (2012).

[3]. Yang, J., Singh, V., Cha, B., et al. NHERF2 protein mobility rate is determined by a unique C-terminal domain that is also necessary for its regulation of NHE3 protein in OK cells. J.Biol.Chem. 288(23), 16960-16974 (2013).

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