Product Data Sheet

Product Name: Iberiotoxin
Cat. No.: GC16254

Chemical Properties

Cas. No.	129203-60-7
SMILES	CC(CC1/C(O)=N/C(/C(O)=N/C/C(O)=N/C(/C(O)=N/C(/C(O)=N/C(/C(O)=N/C/C(O)=N/C(/C(O)=N/C(/C(O)=N/C(/C(O)=N/C/C(O)=N\C(/C(C
Formula	$C_{179}H_{274}N_{50}O_{55}S_7$
Solubility	H_2O : ≥ 0.7 mg/mL (0.17 mM)
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
Structure	Iberiotoxin

Protocol

Cell experiment [1,2]:

Cell lines	Rat dorsal root ganglion neurons, bladder
Preparation method	Soluble to 0.70 mg/ml in sterile water. General tips for obtaining a higher concentration: Please warm the tube at 37 ℃ for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20℃ for several months.
Reacting condition	10-100 nM
Applications	Iberiotoxin (IbTX) (10-100 nM) increased the myogenic activity of bladder, but not portal vein. IbTX caused a sustained contracture of aorta. In rat dorsal root ganglion neurons, IbTx (100 nM) reduced whole-cell outward currents in 67% of small and medium size neurons. IbTx significantly prolonged the duration of action potential and increased firing frequency of afferent neurons.
Other notes	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

References:

[1]. Suarez-Kurtz, G. U. I. L. H. E. R. M. E., Garcia, M. L., & Kaczorowski, G. J. (1991). Effects of charybdotoxin and iberiotoxin on the spontaneous motility and tonus of different guinea pig smooth muscle tissues. Journal of Pharmacology and Experimental Therapeutics, 259(1), 439-443.

[2]. Zhang, X. F., Gopalakrishnan, M., & Shieh, C. C. (2003). Modulation of action potential firing by iberiotoxin and NS1619 in rat dorsal root ganglion neurons. Neuroscience, 122(4), 1003-1011.

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