

(BrMT)2

Chemical Properties

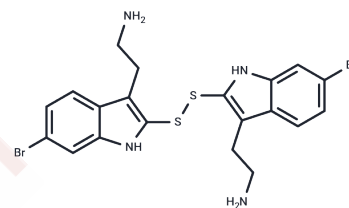
CAS No. : 622011-16-9

Formula: C₂₀H₂₀Br₂N₄S₂

Molecular Weight: 540.34

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(BrMT)2 is an activator of the Kv1.1 potassium ion channel.
Targets(IC50)	Others,Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8507 mL	9.2534 mL	18.5069 mL
5 mM	0.3701 mL	1.8507 mL	3.7014 mL
10 mM	0.1851 mL	0.9253 mL	1.8507 mL
50 mM	0.037 mL	0.1851 mL	0.3701 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gao D, Sand R, Fu H, Sharmin N, Gallin WJ, Hall DG. Synthesis of the non-peptidic snail toxin 6-bromo-2-mercaptotryptamine dimer (BrMT)(2), its lower and higher thio homologs and their ability to modulate potassium ion channels. *Bioorg Med Chem Lett*. 2013 Oct 15;23(20):5503-6. doi: 10.1016/j.bmcl.2013.08.070. Epub 2013 Aug 22. PubMed PMID: 24021461.

Ahn YO, Kim SH, Lee J, Kim H, Lee HS, Kwak SS. Three *Brassica rapa* metallothionein genes are differentially regulated under various stress conditions. *Mol Biol Rep*. 2012 Mar;39(3):2059-67. doi: 10.1007/s11033-011-0953-5. Epub 2011 Jun 4. PubMed PMID: 21643753.

Sack JT, Aldrich RW. Binding of a gating modifier toxin induces intersubunit cooperativity early in the Shaker K channel's activation pathway. *J Gen Physiol*. 2006 Jul;128(1):119-32. PubMed PMID: 16801385; PubMed Central PMCID: PMC2151558.

Wolters AM, Jayawickrama DA, Sweedler JV. Comparative analysis of a neurotoxin from *Calliostoma canaliculatum* by on-line capillary isotachopheresis/¹H NMR and diffusion ¹H NMR. *J Nat Prod*. 2005 Feb;68(2):162-7. PubMed PMID: 15730236.

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