

## Kaliotoxin

## Chemical Properties

CAS No. :	145199-73-1
Formula:	C171H283N55O49S8
Molecular Weight:	4149.94
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Kaliotoxin is an inhibitor of neuronal BK-type peptide groups and specifically inhibits Kv channels and calcium-activated potassium channels. Kaliotoxin has research significance on the regulation of cell membrane potential and neuronal excitability. The product number is T37808 and the CAS number is 145199-73-1
Targets(IC50)	Potassium Channel

## Solubility Information

Solubility	H2O: 2 mg/mL (0.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.241 mL	1.2048 mL	2.4097 mL
5 mM	0.0482 mL	0.241 mL	0.4819 mL
10 mM	0.0241 mL	0.1205 mL	0.241 mL
50 mM	0.0048 mL	0.0241 mL	0.0482 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

M Crest, et al. Kaliotoxin, a novel peptidyl inhibitor of neuronal BK-type Ca(2+)-activated K+ channels characterized from Androctonus mauretanicus mauretanicus venom. J Biol Chem. 1992 Jan 25;267(3):1640-7.  
S Kourrich, et al. Kaliotoxin, a Kv1.1 and Kv1.3 channel blocker, improves associative learning in rats. Behav Brain Res. 2001 Apr 8;120(1):35-46.

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