Data Sheet (Cat.No.TP2059)

TargetMol

Charybdotoxin

Chemical Properties

CAS No. : 95751-30-7

Formula: C176H277N57O55S7

Molecular Weight: 4295.95

(Glp)-FTNVSCTTSKECWSVCQRLHNTSRGKCMNKKCRCYS
(Disulfide bridge: Cys7-Cys28; Cys13-Cys33; Cys17-Cys35)

Storage: Keep away from moisture
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	Specific inhibitor of the big conductance Ca2+-activated K+ channel.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	H2O: 1 mg/mL (0.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2328 mL	1.1639 mL	2.3278 mL
5 mM	0.0466 mL	0.2328 mL	0.4656 mL
10 mM	0.0233 mL	0.1164 mL	0.2328 mL
50 mM	0.0047 mL	0.0233 mL	0.0466 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

Asano et al (1993) Charybdotoxin-sensitive K+ channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats. Br.J.Pharmacol. 108 214 PMID:
Gimenez-Gallego et al (1988) Purification, sequence, and model structure of charybdotoxin, a potent selective inhibitor of calcium activated potassium channels. Proc.Natl.Acad.Sci.U.S.A. 85 3329 PMID:
Miller et al (1985) Charybdotoxin, a protein inhibitor of single Ca2+ activated K+ channels from mammalian skeletal muscle. Nature 313 316 PMID:

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481