

α -Dendrotoxin

Chemical Properties

CAS No. :	74504-53-3
Formula:	C305H478N98O84S6
Molecular Weight:	7072
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	α -Dendrotoxin (α -DTX) is a small molecular peptide neurotoxin isolated from the venom of the African green mamba snake (<i>Dendroaspis angusticeps</i>). This compound acts as a blocker for KV1.1, KV1.2, KV1.6, and ASIC channels. By inhibiting potassium channels, α -Dendrotoxin reduces the threshold for neuronal action potentials and increases the frequency of these potentials, thereby enhancing neuronal excitability. It is utilized in neurotoxicological research.
Targets(IC50)	Potassium Channel,Sodium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1414 mL	0.707 mL	1.414 mL
5 mM	0.0283 mL	0.1414 mL	0.2828 mL
10 mM	0.0141 mL	0.0707 mL	0.1414 mL
50 mM	0.0028 mL	0.0141 mL	0.0283 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.

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