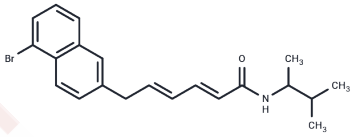
Data Sheet (Cat.No.T23827)

TargetMol

BTG 502

Chemical Properties



CAS No. : 99083-11-1

Formula: C21H24BrNO

Molecular Weight: 386.33

Storage: Store at low temperature,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	BTG 502 is an alkylamide insecticide that binds to voltage-gated sodium channels and reduces sodium currents, antagonising the activation of sodium channels by Batrachotoxin (BTX).
Targets(IC50)	Parasite,Sodium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5885 mL	12.9423 mL	25.8846 mL
5 mM	0.5177 mL	2.5885 mL	5.1769 mL
10 mM	0.2588 mL	1.2942 mL	2.5885 mL
50 mM	0.0518 mL	0.2588 mL	0.5177 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

Du Y, et al. An important role of a pyrethroid-sensing residue F1519 in the action of the N-alkylamide insecticide BTG 502 on the cockroach sodium channel. Insect Biochem Mol Biol. 2011 Jul;41(7):446-50.

Du Y, et al. Batrachotoxin, pyrethroids, and BTG 502 share overlapping binding sites on insect sodium channels. Mol Pharmacol. 2011 Sep;80(3):426-33.

Ottea JA, Payne GT, Bloomquist JR, Soderlund DM. Activation of sodium channels and inhibition of [3H] batrachotoxinin A-20-alpha-benzoate binding by an N-alkylamide neurotoxin. Mol Pharmacol. 1989 Aug;36(2): 280-4. PubMed PMID: 2549384.

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