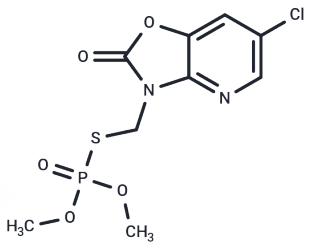
Data Sheet (Cat.No.T20812)

TargetMol

Azamethiphos

Chemical Properties



CAS No. : 35575-96-3

Formula: C9H10ClN2O5PS

Molecular Weight: 324.68

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	Azamethiphos, an organothiophosphate insecticide, is used in Atlantic salmon fish farming to control parasites.
Targets(IC50)	Parasite,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 55 mg/mL (169.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.080 mL	15.3998 mL	30.7996 mL
5 mM	0.616 mL	3.080 mL	6.1599 mL
10 mM	0.308 mL	1.540 mL	3.080 mL
50 mM	0.0616 mL	0.308 mL	0.616 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

Kaur K, Helgesen KO, Bakke MJ, Horsberg TE. Mechanism behind Resistance against the Organophosphate Azamethiphos in Salmon Lice (Lepeophtheirus salmonis). PLoS One. 2015 Apr 20;10(4):e0124220. doi: 10.1371/journal.pone.0124220. eCollection 2015. PubMed PMID: 25893248

Olsvik PA, Ørnsrud R, Lunestad BT, Steine N, Fredriksen BN. Transcriptional responses in Atlantic salmon (Salmo salar) exposed to deltamethrin, alone or in combination with azamethiphos. Comp Biochem Physiol C Toxicol Pharmacol. 2014 May;162:23-33. doi: 10.1016/j.cbpc.2014.03.005. Epub 2014 Mar 24. PubMed PMID: 24674905.

Couillard CM, Burridge LE. Sublethal exposure to azamethiphos causes neurotoxicity, altered energy allocation and high mortality during simulated live transport in American lobster. Ecotoxicol Environ Saf. 2015 May;115:291-9. doi: 10.1016/j.ecoenv.2014.11.016. Epub 2014 Dec 9. PubMed PMID: 25499691.

Marín SL, Ibarra R, Medina MH, Jansen PA. Sensitivity of Caligus rogercresseyi (Boxshall and Bravo 2000) to pyrethroids and azamethiphos measured using bioassay tests-A large scale spatial study. Prev Vet Med. 2015 Nov 1;122(1-2):33-41. doi: 10.1016/j.prevetmed.2015.09.017. Epub 2015 Oct 9. PubMed PMID: 26455388.