Data Sheet (Cat.No.T16696)



Pyriproxyfen

Chemical Properties

CAS No.: 95737-68-1 Formula: C20H19NO3

Molecular Weight: 321.37

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Pyriproxyfen (S-31183) is an insecticide that acts as a biomimetic of juvenile hormone.
Targets(IC50)	Others
In vivo	Zebrafish male adults were acutely exposed to 0.001, 0.01 and 0.1 µg/mL pyriproxyfen for 16 h. Mitochondrial respiration of brain tissues was assessed. ROS generation was estimated using H2DCF-DA and MitoSOX. Calcium transport was monitored by Calcium Green 5 N. NO synthesis activity was estimated using DAF-FM-DA. Brain acetylcholinesterase showed an in vivo IC20 of 0.30 µmol/L pyriproxyfen, and an IC50 of 92.5 µmol/L. The inhibitory effect on zbAChE activity was competitive-like. Respiratory control of Complex I/II decreased significantly after insecticide exposure. The MitoSOX test showed that O2- generation had a pyriproxyfen dose-dependent effect. Brain tissue lost 50% of Ca2+ uptake capacity at 0.1 µg/mL pyriproxyfen. Ca2+ release showed a

Solubility Information

DMSO: 50 mg/mL (155.58 mM),	
(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1117 mL	15.5584 mL	31.1168 mL
5 mM	0.6223 mL	3.1117 mL	6.2234 mL
10 mM	0.3112 mL	1.5558 m €	3.1117 mL
50 mM	0.0622 mL	0.3112 mL	0.6223 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.

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