Datasheet

Product overview

Name: Fenvalerate
Cat No: HB0287
Short description: Calcineurin inhibitor
Biological description: Calcineurin (protein phosphatase) inhibitor. Type II pyrethroid. Prolongs sodium channel opening times and inhibits T-type Ca\textsuperscript{2+} channel currents. Impairs steroidogenesis and spermatogenesis in rodents. Shows insecticidal, anxiogenic and endocrine disrupting actions.
Biological action: Inhibitor
Purity: >98%

Properties

Molecular Weight: 419.9
Molecular Formula: C\textsubscript{25}H\textsubscript{22}ClNO\textsubscript{3}
CAS Number: 51630-58-1
PubChem identifier: 3347
SMILES: CC(C)(C1=CC=C(C=C1)Cl)C(=O)OC(C#N)C2=CC(=CC=C2)OC3=CC=CC=C3

Storing and Using Your Product

Storage instructions: +4 °C
Solubility overview: Soluble in ethanol (>25mg/ml) or DMSO
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for Fenvalerate

Specific inhibition of calcineurin by type II synthetic pyrethroid insecticides.

PubMedID: 1315545
Fenvalerate-induced Ca2+ transients via both intracellular and extracellular way in mouse GC-2spd (ts) cells.
PubMedID: 19428952

Pubertal and early adult exposure to fenvalerate disrupts steroidogenesis and spermatogenesis in mice at adulthood.
PubMedID: 20063364

Kinetic properties of single sodium channels modified by fenvalerate in mouse neuroblastoma cells.
PubMedID: 2554247