

Huwentoxin-IV TFA

Chemical Properties

CAS No. :

Formula: C176H279F3N52O53S6

Molecular Weight: 4220.8

Keep away from moisture

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	Huwentoxin-IV TFA is a potent, selective blocker of sodium channels, specifically inhibiting neuronal Nav1.7, Nav1.2, Nav1.3, and Nav1.4 with IC50 values of 26, 150, 338, and 400 nM, respectively. It preferentially targets the peripheral nerve subtype Nav1.7 by interacting with neurotoxin receptor site 4, demonstrating analgesic effects in animal models of inflammatory and neuropathic pain [1] [2].
Targets(IC50)	Sodium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2369 mL	1.1846 mL	2.3692 mL
5 mM	0.0474 mL	0.2369 mL	0.4738 mL
10 mM	0.0237 mL	0.1185 mL	0.2369 mL
50 mM	0.0047 mL	0.0237 mL	0.0474 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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