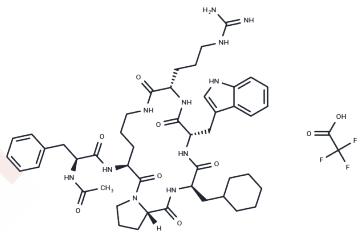
Data Sheet (Cat.No.T83669)

PMX-53 TFA

Chemical Properties



CAS No. :	514814-99-4
Formula:	C47H65N11O7.XCF3COOH
Molecular Weight:	896.09
Storage:	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	PMX-53, a macrocyclic complement 5a (C5a) peptidomimetic and C5a receptor antagonist (IC50 = 0.3 μM), effectively inhibits the C5a-induced secretion of myeloperoxidase (MPO) in isolated human polymorphonuclear leukocytes (PMNs). Administered orally at 10 mg/kg, PMX-53 mitigates vascular leakage, PMN infiltration, and the production of TNF-α and IL-6 in a rat peritoneal Arthus reaction model. Additionally, in a 3-nitropropionic acid (3-NP)-induced Huntington's disease rat model, it alleviates body weight loss, anorexia, and striatal degeneration. Furthermore, at a dose of 3 mg/kg, PMX-53 decreases atherosclerotic lesion size and lipid content in ApoE-/- mice.

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.116 mL	5.5798 mL	11.1596 mL
5 mM	0.2232 mL	1.116 mL	2.2319 mL
10 mM	0.1116 mL	0.558 mL	1.116 mL
50 mM	0.0223 mL	0.1116 mL	0.2232 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.

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