

EPI-X4 TFA

Chemical Properties

CAS No. :

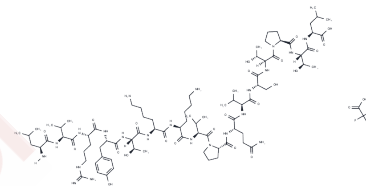
Formula: C84H144N22O23.XCF3COOH

Molecular Weight: 1830.18

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

EPI-X4, an endogenous peptide fragment of human serum albumin (amino acids 408-423), serves as an antagonist to the chemokine (C-X-C motif) receptor 4 (CXCR4). It effectively prevents calcium mobilization and receptor internalization triggered by chemokine (C-X-C motif) ligand 12 (CXCL12) in HEK293 cells with CXCR4 expression, at concentrations between 0.8 and 1,000 μ M. Moreover, EPI-X4 hampers the CXCL12-driven migration of both Jurkat T cells and human CD34+ hematopoietic stem cells. In an acute allergic airway hypereosinophilia mouse model, EPI-X4 intrinsically decreases Cxcr4-dependent inflammatory cell infiltration in airways at a dose of 16 μ mol/kg. Additionally, increased urinary EPI-X4 levels, inversely related to glomerular filtration rate (GFR), are observed in chronic kidney disease patients, indicating its potential biomarker role.

Solubility Information

Solubility

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5464 mL	2.732 mL	5.4639 mL
5 mM	0.1093 mL	0.5464 mL	1.0928 mL
10 mM	0.0546 mL	0.2732 mL	0.5464 mL
50 mM	0.0109 mL	0.0546 mL	0.1093 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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