

PAMP-12 (human, mouse, rat, porcine, bovine) TFA

Chemical Properties

CAS No. :

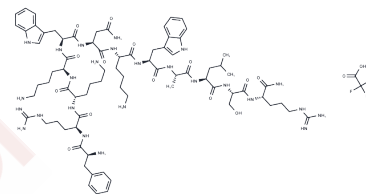
Formula: C77H119N25O14.XCF3COOH

Molecular Weight: 1618.93

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	Proadrenomedullin N-terminal 12 peptide (PAMP-12), an endogenous fragment originating from the adrenal medulla and spanning amino acids 9-20 of human PAMP-20, plays a role in causing hypotension. It functions as an agonist for the MAS-related G protein-coupled receptor family member X2 (MRGPRX2), inhibiting forskolin-stimulated cAMP accumulation in CHO cells expressing human MRGPRX2 (EC50 = 57.2 nM) and selectively prompting calcium mobilization in these cells (EC50 = 41 nM), but not in cells expressing MRGPRX1, MRGPRX3, or MRGPRX4 at 1 μ M. As an antagonist of nicotinic acetylcholine receptors (nAChRs), PAMP-12 obstructs carbachol-triggered catecholamine release and the influx of calcium and sodium (IC50s = 1.3, 0.39, and 0.87 μ M, respectively) in primary bovine adrenal chromaffin cells, with no effect on histamine-induced responses (IC50s = >1 μ M for all). Additionally, it decreases mean arterial blood pressure in normotensive rats at doses ranging from 10 to 50 nmol/kg.
-------------	---

Solubility Information

Solubility	DMSO: 10 mg/mL (6.18 mM), Sonication is recommended. DMF: 50 mg/mL (30.88 mM), Sonication is recommended. PBS pH 7.2: 10 mg/mL (6.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6177 mL	3.0885 mL	6.1769 mL
5 mM	0.1235 mL	0.6177 mL	1.2354 mL
10 mM	0.0618 mL	0.3088 mL	0.6177 mL
50 mM	0.0124 mL	0.0618 mL	0.1235 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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481