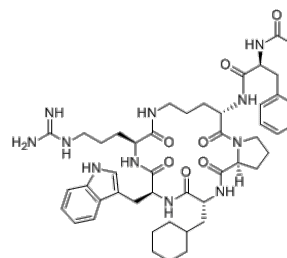


Product Name : PMX53
Synonyms : PMX 53; Ac-Phe-cyclo(Orn-Pro-D-Cha-Trp-Arg)
Cat No. : M13502
CAS Number : 219639-75-5
Molecular Formula : C₄₇H₆₅N₁₁O₇
Formula Weight : 896.10
Chemical Name : Ac-Phe-cyclo(Orn-Pro-D-Cha-Trp-Arg)



Description : PMX53 (Ac-Phe-cyclo(Orn-Pro-D-Cha-Trp-Arg)) is a potent C5a receptor (CD88) antagonist with IC₅₀ of 20 nM, also is an agonist for Mas-related gene 2 (MrgX2) in human mast cells; PMX-53 (10 nM) inhibited C5a-induced Ca²⁺ mobilization in HMC-1 cells, but at higher concentrations (>30 nM) it caused degranulation in LAD2 mast cells, CD34(+) cell-derived mast cells, and RBL-2H3 cells stably expressing MrgX2; inhibits zymosan-, carrageenan-, LPS- and antigen-induced hypemociception in rats.

Pathway : Immunology/Inflammation

Target : Complement System

Receptor : Complement System

Solubility : —

SMILES : N=C(NCCC[C@H](NC([C@@H](NC([C@H](NC([C@H]1N(CCC1)C([C@@H](NC([C@@H](NC(C)=O)CC2=CC=CC=C2)=O)CCCN3)=O)CC4CCCCC4)=O)CC5=CNC6=C5C=CC=C6)=O)C3=O)N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Ting E, et al. Br J Pharmacol. 2008 Mar;153(5):1043-53. | 2. Subramanian H, et al. Mol Pharmacol. 2011 Jun;79(6):1005-13. | 3. Liu H, et al. Nat Struct Mol Biol. 2018 Jun;25(6):472-481. | 4. Finch AM, et al. J Med Chem. 1999 Jun 3;42(11):1965-74.