

PMX-53

Chemical Properties

CAS No. : 219639-75-5

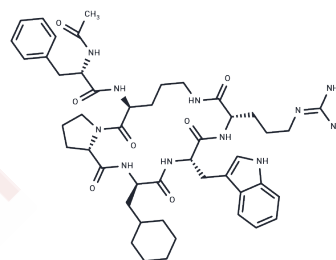
Formula: C47H65N11O7

Molecular Weight: 896.09

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	PMX-53 is a Mas-related gene 2 (MrgX2) agonist and C5aR(CD88) antagonist. PMX-53 reduces atherosclerotic lesions in a mouse model of atherosclerosis, inhibits lung metastasis in a mouse breast cancer model, inhibits C5a-induced hypernociception in rats.
Targets(IC50)	Complement System

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.

Reference

- Hajishengallis G, Maekawa T, Abe T, Hajishengallis E, Lambris JD. Complement Involvement in Periodontitis: Molecular Mechanisms and Rational Therapeutic Approaches. *Adv Exp Med Biol.* 2015;865:57-74. doi: 10.1007/978-3-319-18603-0_4. Review. PubMed PMID: 26306443; PubMed Central PMCID: PMC4562417.
- Wu H, Zeng M, Cho EY, Jiang W, Sha O. The Origin, Expression, Function and Future Research Focus of a G Protein-coupled Receptor, Mas-related Gene X2 (MrgX2). *Prog Histochem Cytochem.* 2015 Jul;50(1-2):11-7. doi: 10.1016/j.proghi.2015.06.001. Review. PubMed PMID: 26106044.
- Benson MJ, Thomas NK, Talwar S, Hodson MP, Lynch JW, Woodruff TM, Borges K. A novel anticonvulsant mechanism via inhibition of complement receptor C5ar1 in murine epilepsy models. *Neurobiol Dis.* 2015 Apr;76:87-97. doi: 10.1016/j.nbd.2015.02.004. PubMed PMID: 25681535.
- Halai R, Bellows-Peterson ML, Branchett W, Smadbeck J, Kieslich CA, Croker DE, Cooper MA, Morikis D, Woodruff TM, Floudas CA, Monk PN. Derivation of ligands for the complement C3a receptor from the C-terminus of C5a. *Eur J Pharmacol.* 2014 Dec 15;745:176-81. doi: 10.1016/j.ejphar.2014.10.041. PubMed PMID: 25446428; PubMed Central PMCID: PMC4263610.

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