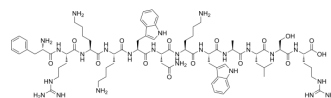


PAMP-12 (unmodified)

Cat. No.:	HY-P3419
CAS No.:	929905-12-4
Molecular Formula:	C ₇₇ H ₁₁₈ N ₂₄ O ₁₅
Molecular Weight:	1619.91
Sequence:	Phe-Arg-Lys-Lys-Trp-Asn-Lys-Trp-Ala-Leu-Ser-Arg
Sequence Shortening:	FRKKWNKWALSR
Target:	Mas-related G-protein-coupled Receptor (MRGPR)
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (61.73 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.6173 mL	3.0866 mL	6.1732 mL
5 mM	0.1235 mL	0.6173 mL	1.2346 mL
10 mM	0.0617 mL	0.3087 mL	0.6173 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PAMP-12 (unmodified) is a potent MRGPRX2 (MrgX2) agonist (EC₅₀=20-50 nM). PAMP-12 (unmodified) is an endogenous peptide that elicit hypotension through inhibiting catecholamine secretion from sympathetic nerve endings and adrenal chromaffin cells^[1].

REFERENCES

[1]. Kamohara M, et al. Identification of MrgX2 as a human G-protein-coupled receptor for proadrenomedullin N-terminal peptides. *Biochem Biophys Res Commun.* 2005;330(4):1146-1152.

[2]. Chen E, et al. Inflamed Ulcerative Colitis Regions Associated With MRGPRX2-Mediated Mast Cell Degranulation and Cell Activation Modules, Defining a New Therapeutic

Caution: Product has not been fully validated for medical applications. For research use only.

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