



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PHM-27 (human)

Cat. No.:	HY-P1072
CAS No.:	87403-73-4
Molecular Formula:	C ₁₃₅ H ₂₁₄ N ₃₄ O ₄₀ S
Molecular Weight:	2985.41
Sequence:	HADGVFTSDFSLLGQLSAKKYLESLM-NH ₂ {His}{Ala}{Asp}{Gly}{Val}{Phe}{Thr}{Ser}{Asp}{Phe}{Ser}{Lys}{Leu}{Leu}{Gly}{Gln}{Leu}{Ser}{Ala}{Lys}{Lys}{Tyr}{Leu}{Glu}{Ser}{Leu}{Met}-NH ₂
Sequence Shortening:	HADGVFTSDFSLLGQLSAKKYLESLM-NH ₂
Target:	CGRP Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year

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

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (33.50 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.3350 mL	1.6748 mL	3.3496 mL
5 mM	0.0670 mL	0.3350 mL	0.6699 mL
10 mM	0.0335 mL	0.1675 mL	0.3350 mL

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

BIOLOGICAL ACTIVITY

Description

PHM-27 (human) is a human prepro-vasoactive intestinal polypeptide (27 amino acid). PHM-27 (human) is a potent the human calcitonin receptor agonist with an EC₅₀ of 11 nM. PHM-27 (human) efficiently enhances glucose-induced insulin secretion from beta cells by an autocrine mechanism^{[1][2][3]}.

IC₅₀ & Target

EC₅₀: 11 nM (human calcitonin receptor)^[2]

REFERENCES

[1]. N Itoh, et al. Human preprovasoactive intestinal polypeptide contains a novel PHI-27-like peptide, PHM-27. Nature. 1983 Aug 11-17;304(5926):547-9.

[2]. Jian-Nong Ma, et al. Discovery of novel peptide/receptor interactions: identification of PHM-27 as a potent agonist of the human calcitonin receptor. Biochem

Pharmacol. 2004 Apr 1;67(7):1279-84.

[3]. I Kato, et al. Transgenic mice overexpressing human vasoactive intestinal peptide (VIP) gene in pancreatic beta cells. Evidence for improved glucose tolerance and enhanced insulin secretion by VIP and PHM-27 in vivo. J Biol Chem. 1994 Aug 19;269(33):21223

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA