



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) 

PRODUCT INFORMATION



Pancreatic Polypeptide (human) (trifluoroacetate salt)

Item No. 24555

Formal Name: L-alanyl-L-prolyl-L-leucyl-L- α -glutamyl-L-prolyl-L-valyl-L-tyrosyl-L-prolylglycyl-L- α -aspartyl-L-asparaginyl-L-alanyl-L-threonyl-L-prolyl-L- α -glutamyl-L-glutamyl-L-methionyl-L-alanyl-L-glutamyl-L-tyrosyl-L-alanyl-L-alanyl-L- α -aspartyl-L-leucyl-L-arginyl-L-arginyl-L-tyrosyl-L-isoleucyl-L-asparaginyl-L-methionyl-L-leucyl-L-threonyl-L-arginyl-L-prolyl-L-arginyl-L-tyrosinamide, trifluoroacetate salt

MF: $C_{185}H_{287}N_{53}O_{54}S_2 \cdot XCF_3COOH$

FW: 4,181.8

Purity: $\geq 95\%$

Supplied as: A lyophilized powder

Storage: $-20^\circ C$

Stability: ≥ 2 years

–Ala–Pro–Leu–Glu–Pro–Val–Tyr–Pro–Gly–Asp–Asn–Ala–Thr–Pro–Glu–Gln–Met–Ala–Gln–Tyr–Ala–Ala–Asp–Leu–Arg–Arg–Tyr–Ile–Asn–Met–Leu–Thr–Arg–Pro–Arg–Tyr–NH₂
• XCF₃COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Pancreatic polypeptide (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the pancreatic polypeptide (human) (trifluoroacetate salt) in water. The solubility of pancreatic polypeptide (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Pancreatic polypeptide is an agonist of neuropeptide Y (NPY) receptors that reduces forskolin-induced cAMP accumulation in L-M(TK-) cells recombinantly expressing human and rat Y₄ receptors (EC₅₀s = 87.1 and 36.3 pM, respectively).¹ It binds to Y₁ and Y₅ receptors with K_i values of 19 and 3.9 nM, respectively, for human and 50 and 2.4 nM, respectively, for rhesus monkey receptors.² Pancreatic polypeptide also binds to rabbit Y₁, Y₂, Y₄, and Y₅ receptors (K_is = 0.39, 0.087, 0.79, and 0.24 nM, respectively).³ It induces contractile responses in isolated rat colon with EC₅₀ values of 1.6 and 0.7 nM for ascending and descending colon segments, respectively.⁴ *In vivo*, pancreatic polypeptide (0.7-7 nmol, i.c.v.) increases food intake in rats.⁵

References

1. Walker, M.W., Smith, K.E., Bard, J., *et al.* A structure-activity analysis of the cloned rat and human Y₄ receptors for pancreatic polypeptide. *Peptides* **18(4)**, 609-612 (1997).
2. Gehlert, D.R., Yang, P., George, C., *et al.* Cloning and characterization of Rhesus monkey neuropeptide Y receptor subtypes. *Peptides* **22(3)**, 343-350 (2001).
3. Umeda, T., Kanatani, A., and Iwaasa, H. Cloning and characterization of rabbit neuropeptide Y receptor subtypes. *Peptides* **30(8)**, 1441-1447 (2009).
4. Pheng, L.-H., Perron, A., Quirion, R., *et al.* Neuropeptide Y-induced contraction is mediated by neuropeptide YY₂ and Y₄ receptors in the rat colon. *Eur. J. Pharmacol.* **374(1)**, 85-91 (1999).
5. Haynes, A.C., Arch, J.R.S., Wilson, S., *et al.* Characterisation of the neuropeptide Y receptor that mediates feeding in the rat: A role for the Y₅ receptor? *Regul. Pept.* **75-76**, 355-361 (1998).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/30/2019

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM