PRODUCT INFORMATION

PACAP-related Peptide (human) (trifluoroacetate salt)

Item No. 24772

Formal Name: L-α-aspartyl-L-valyl-L-alanyl-L-histidylglycyl-L-isoleucyl-L-leucyl-L-asparaginyl-L-α-glutamyl-L-alanyl-L-tyrosyl-L-arginyl-L-lysyl-L-valyl-L-leucyl-L-α-aspartyl-L-glutaminyl-L-leucyl-L-seryl-L-alanylglycyl-L-lysyl-L-histidyl-L-leucyl-L-glutaminyl-L-seryl-L-leucyl-L-valyl-L-alanine, trifluoroacetate salt

Synonyms: Pituitary Adenylate Cyclase-activating Peptide-related Peptide (human), PRP (human)

MF: $C_{139}H_{229}N_{41}O_{42} \bullet XCF_3COOH$

FW: 3,146.6

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥4 years

H—Asp—Val—Ala—His—Gly—Ile—Leu—Asn—Glu—Ala—
Tyr—Arg—Lys—Val—Leu—Asp—Gln—Leu—Ser—Ala—
Gly—Lys—His—Leu—Gln—Ser—Leu—Val—Ala—NH_2
• XCF_3COOH

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

Laboratory Procedures

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

Description

PRP is an endogenous 29-amino acid peptide that belongs to the secretin/glucagon superfamily of peptides, which includes secretin (Item No. 24561), glucagon (Item No. 24204), glucagon-like peptide-1 (GLP-1; Item No. 24460), GLP-2 (Item No. 24414), and pituitary adenylate cyclase-activating polypeptide (PACAP; Item Nos. 24769 | 24770).[1,2] It is expressed in normal human pancreas and adrenal gland tissue and in some tumors that produce vasoactive intestinal peptide (VIP).[3] PRP (1-29) is secreted by CHO-K1 cells that express human recombinant preproPACAP.[4]

References

1. Vaudry, D., Falluel-Morel, A., Bourgault, S., *et al.* Pituitary adenylate cyclase-activating polypeptide and its receptors: 20 years after the discovery. *Pharmacol. Rev.* **61(3)**, 283-357 (2009).
2. Tam, J.K., Lee, L.T., and Chow, B.K. PACAP-related peptide (PRP)--molecular evolution and potential functions. *Peptides* **28(9)**, 1920-1929 (2007).
3. Fahrenkrug, J., Buhl, T., and Hannibal, J. PreproPACAP-derived peptides occur in VIP-producing tumours and co-exist with VIP. *Regul. Pept.* **58(3)**, 89-98 (1995).
4. Okazaki, K., Kimura, C., Kosaka, T., *et al.* Expression of human pituitary adenylate cyclase activating polypeptide (PACAP) cDNA in CHO cells and characterization of the products. *FEBS Lett.* **298(1)**, 49-56 (1992).

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