PRODUCT INFORMATION

Acetyl PACAP (1-38) (human, mouse, ovine, porcine, rat) (trifluoroacetate salt)

Item No. 24774

Formal Name: N-acetyl-L-histidyl-L-seryl-L-α-aspartylglycyl-L-isoleucyl-L-phenylalanyl-L-threonyl-L-α-aspartyl-L-seryl-L-tyrosyl-L-seryl-L-arginyl-L-tyrosyl-L-arginyl-L-lysyl-L-glutaminyl-L-methionyl-L-alanyl-L-valyl-L-lysyl-L-lysyl-L-tyrosyl-L-leucyl-L-alanyl-L-alanyl-L-valyl-L-leucylglycyl-L-lysyl-L-arginyl-L-tyrosyl-L-lysyl-L-glutaminyl-L-arginyl-L-valyl-L-lysyl-L-asparaginyl-L-lysinamide, trifluoroacetate salt

Synonym: Acetyl Pituitary Adenylate Cyclase-activating Peptide (1-38)

MF: $C_{205}H_{333}N_{63}O_{54}S \bullet XCF_3COOH$

FW: 4,576.3

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥4 years

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

Laboratory Procedures

Acetyl PACAP (1-38) (human, mouse, ovine, porcine, rat) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the acetyl PACAP (1-38) (human, mouse, ovine, porcine, rat) (trifluoroacetate salt) in water. The solubility of acetyl PACAP (1-38) (human, mouse, ovine, porcine, rat) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Acetyl pituitary adenylate cyclase-activating peptide (PACAP) (1-38) is an N-terminally acetylated form of PACAP (1-38) (Item No. 24770).[1] It binds to the PACAP receptor PAC_1 (IC_{50} = 5.6 nM for the human receptor) and induces calcium mobilization and proliferation of PC12 cells (EC_{50}s = 4.4 and 0.83 nM, respectively) with an efficacy comparable to PACAP (1-38). Acetyl PACAP (1-38) is resistant to degradation by dipeptidyl peptidase 4 (DPP-4) with a 10-fold longer half-life than PACAP (1-38), respectively.

Reference

1. Bourgault, S., Vaudry, D., Botia, B., *et al.* Novel stable PACAP analogs with potent activity towards the PAC1 receptor. *Peptides* **29(6)**, 919-932 (2008).

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