

PACAP (Human, 6-38)
Synthetic Peptide
Catalog # SP2119a**Specification**

PACAP (Human, 6-38) - Product Information

Primary Accession	O70176
Other Accession	P41534 , P13589 , Q29W19 , P18509 , P16613
Sequence	NH2-FTDSYSRYRKQMAVKKYLA AVL GKRYKQ RVKNK-CONH2

PACAP (Human, 6-38) - Additional Information**Gene ID** 11516**Other Names**

Pituitary adenylate cyclase-activating polypeptide, PACAP, PACAP-related peptide, PRP-48, Pituitary adenylate cyclase-activating polypeptide 27, PACAP-27, PACAP27, Pituitary adenylate cyclase-activating polypeptide 38, PACAP-38, PACAP38, Adcyap1, Pacap

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PACAP (Human, 6-38) - Protein Information**Name** Adcyap1 {ECO:0000312|MGI:MGI:105094}**Synonyms** Pacap**Function**

PACAP is a neuropeptide involved in diverse array of physiological processes through activating the PACAP subfamily of class B1 G protein-coupled receptors: VIP receptor 1 (VIPR1), VIP receptor 2 (VIPR2), and PACAP type I receptor (ADCYAP1R1) (By similarity). Exerts neuroprotective and general cytoprotective effects due to anti- apoptotic, anti-inflammatory, and antioxidant actions (PubMed:18055122). Promotes neuron projection development through the RAPGEF2/Rap1/B-Raf/ERK pathway (By similarity). In chromaffin cells, induces long-lasting increase of intracellular calcium concentrations and neuroendocrine secretion (By similarity). Involved in the control of glucose homeostasis, induces insulin secretion by pancreatic beta cells (PubMed:23913443). PACAP exists in two bioactive forms from proteolysis of the same precursor protein, PACAP27 and PACAP38,

which differ by eleven amino acid residues in the C-terminus (By similarity).

Cellular Location

Secreted.

PACAP (Human, 6-38) - Images