

**PACAP-Related Peptide (PRP), rat
Synthetic Peptide
Catalog # SP2623a****Specification**

PACAP-Related Peptide (PRP), rat - Product InformationPrimary Accession
Sequence[P13589](#)
NH2-DVAHEILNEAYRKVLDQLSARKYLQSMVA
-CONH2**PACAP-Related Peptide (PRP), rat - Additional Information****Gene ID** 24166**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

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-Related Peptide (PRP), rat - Protein Information**Name** Adcyap1**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). Exerts neuroprotective and general cytoprotective effects due to anti-apoptotic, anti-inflammatory, and antioxidant actions (By similarity). Promotes neuron projection development through the RAPGEF2/Rap1/B-Raf/ERK pathway (PubMed:23800469). In chromaffin cells, induces long-lasting increase of intracellular calcium concentrations and neuroendocrine secretion (PubMed:18198219). Involved in the control of glucose homeostasis, induces insulin secretion by pancreatic beta cells (By similarity). 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-Related Peptide (PRP), rat - Images