

PACAP-Related Peptide (PRP), rat

Synthetic Peptide Catalog # SP2623b

Specification

PACAP-Related Peptide (PRP), rat - Product Information

Primary Accession Sequence

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, PACAP-27, Pituitary adenylate cyclase-activating polypeptide 38, PACAP-38, PACAP-38, 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

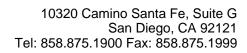
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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" target="_blank">23800469). In chromaffin cells, induces long-lasting increase of intracellular calcium concentrations and neuroendocrine secretion (PubMed:18198219/a>). 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