PACAP (Pituitary Adenylate Cyclase Activating Polypeptide) (Human, Ovine, Rat) Peptide – (6-38) Synthetic Peptide, ~95%. Purified by HPLC. Purity

PRODUCT OVERVIEW

Product Name	PACAP (ADCYAP1), Peptide
Full Product Name	PACAP (Pituitary Adenylate Cyclase Activating Polypeptide) (6-38) (human, ovine, rat)
Product Gene Name	ADCYAP1 peptide
Host	Synthetic peptide
Species Reactivity	Human, Rat
Form/Format	Supplied as a lyophilized powder.
Purity/Purification	Highly Purified ~95%. Purified by HPLC.
Preparation and Storage	Lyophilized powder may be stored at 4 degree C for short-term only. Stable for 12 months at -20 degree C. Reconstitute to nominal volume (see reconstitution instructions for peptides) and store at -20 degree C. For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	18,835 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (904366..912173). Location: 18p11
OMIM	102980
Sequence (linear)	Phe-Thr-Asp-Ser-Tyr-Ser-Arg-Tyr-Arg-Lys-Gln-Met-Ala-Val-Lys-Lys-Tyr-Leu-Ala-Ala-Val-Leu-Gly-Lys-Arg-Tyr-Lys-Gln-Arg-Val-Lys-Asn-Lys-NH2
Product Categories/Family for ADCYAP1 peptide	Molecular Biology; MB-Peptides
Related Product Information for ADCYAP1 peptide	MBS659918 is a peptide targeting ADCYAP1. Also known as PACAP (Pituitary Adenylate Cyclase Activating Polypeptide) (6-38) (human, ovine, rat). Reactive in Human, Rat. Host: Synthetic peptide.
Other Notes	Small volumes of ADCYAP1 peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADCYAP1. It may not necessarily be applicable to this product.

NCBI GI #	1132550
NCBI GeneID	116
NCBI Accession #	CAA42962.1
UniProt Primary Accession #	P18509
UniProt Secondary Accession #	Q52LQ0; B2R7N4
UniProt Related Accession #	P18509
NCBI Official Full Name	PACAP
NCBI Official Synonym Full Names	adenylate cyclase activating polypeptide 1 (pituitary)

NCBI Official Symbol	ADCYAP1
NCBI Official Synonym Symbols	PACAP
UniProt Protein Name	Pituitary adenylate cyclase-activating polypeptide
UniProt Synonym Protein Names	PRP-48
Protein Family	Glucagon family neuropeptides
UniProt Gene Name	ADCYAP1
UniProt Synonym Gene Names	PACAP; PACAP-27; PACAP27; PACAP-38; PACAP38
UniProt Entry Name	PACA_HUMAN
NCBI Protein Information	pituitary adenylate cyclase-activating polypeptide; prepro-PACAP
NCBI Summary for ADCYAP1	This gene encodes a secreted proprotein that is further processed into multiple mature peptides. These peptides stimulate adenylate cyclase and increase cyclic adenosine monophosphate (cAMP) levels, resulting in the transcriptional activation of target genes. The products of this gene are key mediators of neuroendocrine stress responses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]
UniProt Comments for ADCYAP1	Function: Binding to its receptor activates G proteins and stimulates adenylate cyclase in pituitary cells. Promotes neuron projection development through the RAPGEF2/Rap1/B-Raf/ERK pathway. Ref.6 Ref.9 Subunit structure: Interacts with ADCYAP1R1 (via N-terminal extracellular domain). Subcellular location: Secreted. Sequence similarities: Belongs to the glucagon family.
Research Articles on ADCYAP1	**1.** [review] PACAP contributes uniquely to the functioning of the splanchnic-adrenal synapse in stress; PACAP is released only at high frequencies of stimulation, and its role regulating epinephrine secretion and biosynthesis is highly specialized.
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