

Rev03  
 Update: Feb,10,2022

## DATASHEET

# PACAP (1-27), human, ovine, rat

Cat. No.: RP10334

## Overview

<b>Description</b>	PACAP (1-27) (the N-terminal fragment of PACAP-38) is a novel neuropeptides originally isolated from bovine hypothalamus, also found in humans and rats. PACAP (1-27) shows considerable homology with Vasoactive Intestinal Polypeptide (VIP), and can stimulate adenylate cyclase much more potently than VIP. The PACAP(1-27)-induced increase in pancreatic venous blood flow was blocked by PACAP(6-27) but not by atropine. Therefore, the endocrine secretagogue effect of PACAP(1-27) is primarily mediated by the PAC(1) receptor, and that PACAP(1-27) may interact with muscarinic receptor function in PACAP-induced insulin and glucagon secretion in the canine pancreas in vivo.
<b>Cas No</b>	127317-03-7
<b>Sequence</b>	{HIS}{SER}{ASP}{GLY}{ILE}{PHE}{THR}{ASP}{SER}{TYR}{SER}{ARG}{TYR}{ARG}{LYS}{GLN}{MET}{ALA}{VAL}{LYS}{LYS}{TYR}{LEU}{ALA}{ALA}{VAL}{LEU}-NH <sub>2</sub>
<b>Sequence Shortening</b>	HSDGIFTDSYSRYRKQMAVKKYLA AVL-NH <sub>2</sub>
<b>Molecular Formula</b>	C <sub>142</sub> H <sub>224</sub> N <sub>40</sub> O <sub>39</sub> S <sub>1</sub>
<b>C Terminal</b>	NH <sub>2</sub>
<b>Molecular Weight</b>	3147.62

## Properties

<b>Purity</b>	> 95%
<b>Solubility</b>	Soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weight out a smaller portion of the contents.
<b>Form</b>	Lyophilized
<b>Storage</b>	Store at -20°C.

## Examples

