

Rev01
Update: Dec,28,2022

DATASHEET

PACAP (1-38), human, ovine, rat

Cat. No.: RP10335CN

Overview

Description	PACAP (1-38), a novel neuropeptide isolated from the bovine hypothalamus is more active than vasoactive intestinal peptide (VIP) in stimulating adenylate cyclase (EC50=7 nM). PACAP 1-38 (10^{-9} M) increased substance P (SP), gastrin releasing peptide (GRP), and VIP release. PACAP 1-38 (10^{-8} M) inhibited gastrin secretion and stimulated somatostatin secretion and motility dose-dependently.
Cas No	137061-48-4
Sequence	{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}{GLY}{LYS}{ARG}{TYR}{LYS}{GLN}{ARG}{VAL}{LYS}{ASN}{LYS}-NH ₂
Sequence Shortening	HSDGIFTDSYSRYRKQMAVKKYLAAVLGKRYKQRVKNK-NH ₂
Molecular Formula	C ₂₀₃ H ₃₃₁ N ₆₃ O ₅₃ S ₁
C Terminal	NH ₂
Molecular Weight	4534.26

Properties

Purity	> 95%
Solubility	The peptide is 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 weigh out a smaller portion of the contents.
Form	Lyophilized
Storage	Store the peptide at -20°C.
Note	PACAP stimulates adenylate cyclase in rat anterior pituitary cells.