

DATASHEET

Version: 2016-08-18

PACAP (1-38), human, ovine, rat**Cat. No.:** RP10335-0.5**Size:** 0.5 mg**Description:**

PACAP (1-38), a novel neuropeptide isolated from the bovine hypothalamus is more active than vasoactive intestinal peptide (VIP) in stimulating adenylate cyclase ($EC_{50}=nM$). 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**C-Terminal:** NH_2 **Sequence (one-letter code):**HSDGIFTDSYSRYRKQMAVKKYLA AVL GKRYKQ RVKNK-NH₂**Sequence (three-letter code):**

{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}-NH₂

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.

Formula: C₂₀₃H₃₃₁N₆₃O₅₃S₁**Molecular Weight:** 4,534.26**Purity:** > 95%**Storage:**

Store the peptide at -20°C.

Note: PACAP stimulates adenylate cyclase in rat anterior pituitary cells.

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