

## **PACAP 38 Peptide (Frog)**

**Subcategory:** Synthetic Peptide

**Cat. No.:** 350322

**Unit:** 1 mg

**Description:**

PACAP 38 Peptide (Frog) (Cat. No. 350322) corresponds to aa127-164 region of PACAP prohormone with C-term amidation. Pituitary adenylate cyclase-activating polypeptide (PACAP) is a 19-kDa prohormone (171 aa in frog) processed into PACAP-related peptide (PRP-48, aa79-124), PACAP-27 (aa127-153) and PACAP-38 (aa127-164). PACAP stimulates adenylate cyclase in pituitary cells, playing pivotal roles as neurotransmitter and neuromodulator. PACAP belongs to the glucagon family, it induces insulin secretion by pancreatic beta cells.

**Format:** Each vial contains 1 mg of lyophilized solid packaged under an inert gas and supplied as a trifluoroacetate salt.

**Alternate Names:** Pituitary adenylate cyclase-activating polypeptide 27; PACAP-27; PACAP27; Pituitary adenylate cyclase-activating polypeptide 38; PACAP-38; PACAP38; ADCYAP1

**Accession No.:** Q09169

**MW:** 4548.38 g/mol

**Sequence:** Frog: H-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-Ile-Lys-Asn-Lys-NH<sub>2</sub> or H-HSDGIFTDSYSRYRKQMAVKKYLAAVLGKRYKQRIKKNK-NH<sub>2</sub>

**Composition:** C204H333N63O53S

**Purity:** Purity > 95% by HPLC

**Solubility:** Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

**Storage:** Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, aliquot and store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.