
Substance P

Subcategory: Synthetic Peptide

Cat. No.: 350394

Unit: 1 mg

Description:

Substance P corresponds to amino acid 58-68 of neurokinin A precursor. Neurokinin A belongs to the tachykinin family, peptides that are potent vasodilators and secretagogues, excite neurons, provoke behavioral responses, and contract smooth muscles. Substance P acts as a neurotransmitter found in brain and spinal cord and is associated with inflammatory responses in the joints by causing pain.

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

Alternate Names: Substance P; Protachykinin-1; PPT; TAC1; NKA; NKNA; TAC2

Accession No.: P20366

MW: 1347.66 g/mol

Sequence: Human: H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH₂ or H-RPKPQQFFGLM-NH₂

Composition: C₆₃H₉₈N₁₈O₁₃S₁

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.

Product Citations: Ishikawa S. et al. 2013. J Plast Surg Hand Surg. Doi:10.3109/2000656X.2013. PMID# 24006918.

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