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Somatostatin Receptor-1 (SSTr1) Peptide

Catalog Number: PR-04
Quantity: 25 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4) with BSA, no preservative.

Background:

Somatostatin Receptor-1 is one of five receptor subtypes termed SSTr1-5. They are G-protein-coupled receptors characterized by seven transmembrane domains with an extracellular amino terminal domain and an intracellular carboxy terminus. These receptors function in the regulation of numerous physiological processes such as the secretion of insulin, glucagon, and growth hormone, as well as cell growth induced by neuronal excitation in both the central and peripheral nervous systems. Somatostatin receptors are activated via somatostatin secretion in nerve and endocrine cells.

Specificity and Preparation:

This peptide corresponds to a sequence from the extracellular domain of Somatostatin Receptor-1 (SSTr1). 100 micrograms of the peptide is diluted into 500 microliters of PBS containing 100 micrograms BSA.

Usage and Storage:

Centrifuge material at low speed in microfuge to ensure all of solution is at bottom of tube. Vortex gently. The material should be stored at -20°C in undiluted aliquots. Material should be aliquoted to a convenient volume and quantity to avoid repeated freezing and thawing that can damage the protein content. Under these conditions, the material has a very stable shelf-life. Thawing should be done at room temperature or on ice. The thawed solution should remain on ice until use. The material can be handled safely using normal laboratory precautions.