

## Protein Kinase A Substrate, Synthetic Peptide

**Catalog No.** CSI13615 **Quantity:** 1.0 mg

**Description:** The synthetic peptide GRTGRRNSI can be used as a substrate for PKA (protein kinase A) in *in vitro* kinase assays. It is phosphorylated by PKA with a  $K_m$  of 0.1  $\mu\text{M}$ . The principle intracellular target for cAMP in mammalian cells is the cAMP-dependent protein kinase (PKA). A large number of hormones, neurotransmitters and other signal substances utilize adenosine 3',5' cyclic monophosphate (cAMP) as an intracellular second messenger. Cyclic AMP regulates a number of different cellular processes such as cell growth and differentiation, ion channel conductivity, synaptic release of neurotransmitters, and gene transcription.

**Molecular Weight:** 1016 g/mol

**Formulation:** Lyophilized.

**Purity:** 90 - 95% by HPLC.

**Amino Acid Sequence:** GRTGRRNSI

**Reconstitution:** Reconstitute in 2 ml sterile water results in a 500  $\mu\text{M}$  solution recommended for PKA activity assays.

**Storage & Stability:** Store at  $-80^\circ\text{C}$  for up to 1 year. **Avoid freeze/thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

