

Synthetic Protein Kinase A Substrate (GRTGRRNSI) 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 μM . 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: QKRPSQRSKYL

Reconstitution: Reconstitute in 2 ml dd H₂O results in a 500 μM solution recommended for PKA activity assays.

Storage & Stability: Store at -20°C for up to 1 year. **Avoid freeze/thaw cycles.**

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