

Synthetic Glycogen Synthase Kinase 3 Substrate (YRRAAVPPSPSLSRHSSPHQ(pS)EDEEE) Peptide

Catalog No. CSI13611 **Quantity:** 1.0 mg

Description: The synthetic peptide YRRAAVPPSPSLSRHSSPHQ(pS)EDEEE can be used as a substrate for GSK3 alpha or beta in *in vitro* kinase assays. Glycogen synthase kinase 3 (GSK3) was initially described as a key enzyme involved in glycogen metabolism, but is now known to regulate a diverse array of cell functions. Insulin and growth factors inhibit GSK3 by triggering its phosphorylation, turning the N terminus into a pseudosubstrate inhibitor that competes for binding with the 'priming phosphate' of substrates.

Molecular Weight: 3028 g/mol

Formulation: Lyophilized.

Purity: 90-95% by HPLC

Amino Acid Sequence: YRRAAVPPSPSLSRHSSPHQ(pS)EDEEE

Reconstitution: Reconstitution in 1.3 ml dd H₂O results in a 250 µM solution recommended for GSK3beta activity assays.

Storage & Stability: Stable for 1 year in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles.**

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