

Synthetic Casein Kinase 2 Substrate (RRRDDDSDDD) Peptide 1

Catalog No. CSI13614 **Quantity:** 1.0 mg

Description: The peptide RRRDDDSDDD can be used as a substrate for CK2 (casein kinase 2) in *in vitro* kinase assays. It is phosphorylated by CK2 with a Km of 50 µM and a Vmax of 159.7 nmol/min/mg.
Casein kinase 2 (CK2) is a ubiquitous pleiotropic proliferation-associated serine/threonine protein kinase. Similar to protein kinase A, CK2 is a tetramer made up from two different subunits α 2 β 2. The catalytic α -subunit corresponds to the C-subunit of PKA, the non-catalytic β -subunit is unique and differs from the R-subunit of PKA in all known features.
Recently it was shown that the β subunit is trifunctional: (i) it confers stability to the holoenzyme, (ii) it increases enzyme activity, and (iii) it determines substrate specificity

Molecular Weight: 1264 g/mol

Formulation: Lyophilized.

Purity: 90 - 95% by HPLC.

Amino Acid Sequence: RRRDDDSDDD

Reconstitution: Reconstitution in ddH₂O.

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.