

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



CaMKII α (K292) Peptide

Cat No.: BS5510P

Background

The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is an ubiquitously expressed serine/threonine protein kinase that is activated by Ca²⁺ and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes, designated α , β , γ and δ , which may or may not be co-expressed in the same tissue type. CaMKII α is autophosphorylated on Thr 286 upon the binding of the Ca²⁺/CaM complex to the autoinhibitory domain of CaMKII. This process is called Ca²⁺/CaM trapping, which is thought to be involved in the synaptic encoding of information.

Swiss-Prot

Q9UQM7

Applications

Blocking

Specificity

This peptide can be used with studies using BS5510 CaMKII α (K292) pAb.

Purification & Purity

Synthetic peptide CaMKII α (K292). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.