

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Casein Kinase I $\epsilon$ (P301) Peptide

Cat No.: BS2279P

#### Background

Casein kinase I (also designated CKI) and casein kinase II (also designated CKII) compose a family of serine/ threonine protein kinases which are present in all eukaryotes examined to date. CKI family members, which include CKI $\alpha$ ,  $\gamma$ ,  $\epsilon$  and  $\delta$ , have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. CKII is usually expressed as a tetrameric complex consisting of either an  $\alpha 2\beta 2$  or an  $\alpha\alpha'\beta 2$  structure. The  $\alpha$  catalytic subunit is stimulated by the  $\beta$  regulatory subunit, which undergoes autophosphorylation. CKII activity is high in the cytosol and nucleus of proliferating and differentiating cells. CKII is known to phosphorylate more than 100 different substrates including nuclear oncoproteins, transcription factors and enzymes involved in DNA metabolism.

#### Swiss-Prot

P49674

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS2279 Casein Kinase I $\epsilon$  (P301) pAb.

#### Purification & Purity

Synthetic peptide Casein Kinase I $\epsilon$  (P301). (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.