

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### TK (P7) Peptide

Cat No.: BS1601P

#### Background

Thymidine kinase 2 (TK2) salvages mitochondrial (mt) pyrimidine deoxynucleosides for mtDNA precursor synthesis. TK2 phosphorylates these nucleosides to their corresponding nucleoside monophosphates using a nucleotide triphosphate as a donor. Deficiency of mitochondrial TK2 manifests as severe skeletal myopathy during infancy, due to depletion of mtDNA. Mutant enzyme possesses similar  $K(m)$  values to wild type, however, the  $V(max)$  is markedly decreased, leading to the decreased enzyme efficiency, which causes the disease.

#### Swiss-Prot

P04183

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS1601 TK (P7) pAb.

#### Purification & Purity

Synthetic peptide TK (P7). (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.