

# Recombinant Human Thymidine kinase/TK1 protein

Catalog No.: RP03232LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7093	P04183

### Tags

C-His

### Synonyms

Thymidine kinase; cytosolic; TK1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris-HCl, 150mM NaCl, 1mM DTT, 2mM EDTA, 10% Glycerol, pH 7.5.  
Contact us for customized product form or formulation.

### Reconstitution

## Background

Thymidine kinase 1(TK1) belongs to the thymidine kinase family. It is located in the cytoplasm, and phosphorylated on Ser-13 in mitosis during post-translational modification. Two forms of this protein have been identified in animal cells, one in cytosol TK1 and one in mitochondria TK2. Thymidine kinases have a key function in the synthesis of DNA and thereby in cell division, as they are part of the unique reaction chain to introduce deoxythymidine into the DNA. Activity of the cytosolic enzyme is high in proliferating cells and peaks during the S-phase of the cell cycle, while it is very low in resting cells. TK1 acts as a homotetramer, and can transform thymidine to thymidine 5'-phosphate with the help of ATP.

## Basic Information

### Description

Recombinant Human Thymidine kinase/TK1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asn234) of Human Thymidine kinase/TK1 (Accession #NP\_003249.3) fused with a 6×His tag at the C-terminus.

### Bio-Activity

### Storage

Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

## Contact

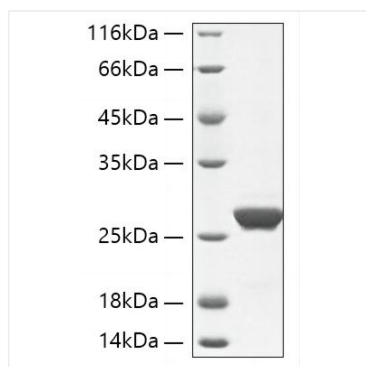
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## Validation Data

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Recombinant Human Thymidine kinase/TK1  
Protein was determined by SDS-PAGE with  
Coomassie Blue, showing a band at 28kDa.