

Product Name: Recombinant Human TK1 (C-6His)
Catalog #: PHH1641

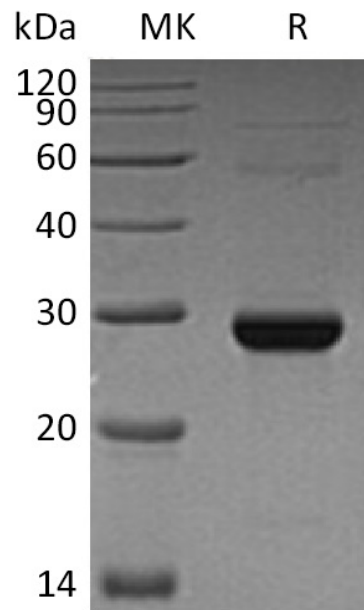


Summary

Name	Thymidine kinase, cytosolic/TK1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Thymidine Kinase, Cytosolic is produced by our Mammalian expression system and the target gene encoding Met1-Asn234 is expressed with a 6His tag at the C-terminus.
Accession #	P04183
Host	Human Cells
Species	Human
Predicted Molecular Mass	26.5 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 5% Trehalose, 5% Mannitol, 500 mM NaCl, 2 mM EDTA, 10% Glycerol, 1 m MDTT, 0.05% Tween80, pH8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&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.
Reconstitution	

SDS-PAGE image

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Alternative Names

Thymidine kinase; cytosolic; TK1

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

Note

For Research Use Only , Not for Diagnostic Use.