Recombinant Human Thymidine kinase/TK1 protein

Catalog No.: RP03232LQ

Sequence Information

Species
Human

Gene ID
7093

Swiss Prot
P04183

Tags
C-His

Synonyms
Thymidine kinase; cytosolic; TK1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.5 KDa

Observed MW
28 KDa

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 thymidime 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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

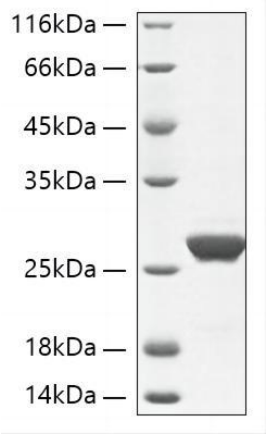
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human Thymidine kinase/TK1 protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.