

TK1 recombinant protein

TK1, 1-234aa, Human, His tag, E Coli

CATALOG # AAA48751	HOST E Coli	APPLICATIONS SDS-Page
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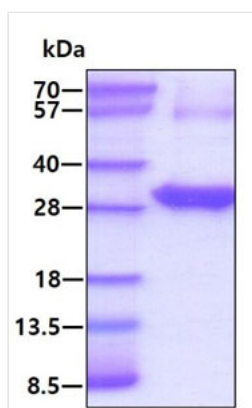
PRODUCT SYNONYMS

TK1; 1-234aa; Human; His tag; E Coli; Thymidine kinase cytosolic; Thymidine kinase; cytosolic; TK2; TK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	1-234aa
Sequence	MGSSHHHHH SSGLVPRGSH MGSHMSCINL PTVLPGSPSK TRGQIQVILG PMFSGKSTEL MRRVRRFQIA QYKCLVIKYA KDTRYSSSFC THDRNTMEAL PACLLRDVAQ EALGVAVIGI DEGQFFPDIV EFCEAMANAG KTVIVAALDG TFQRKPFGAI LNLVPLAESV VKLTAVCMCEC FREAAATKRL GTEKEVEVIG GADKYHSVCR LCYFKKASGQ PAGPDNKENC PVPGKPGEAV AARKLFAPQQ ILQCSPAN
Applicable Applications for TK1 recombinant protein	SDS-PAGE
Tag Information	His-tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for TK1 recombinant protein	TK1, also known as thymidine kinase, is an enzyme, a phosphotransferase (a kinase): 2'-deoxythymidine kinase, ATP-thymidine 5'-phosphotransferase. It is present in two forms in mammalian cells, TK1 and 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. Deoxythymidine is present in the body fluids as a result of degradation of DNA from food and from dead cells. Thymidine kinase is required for the action of many antiviral drugs. It is used to select hybridoma cell lines in production of monoclonal antibodies. In clinical chemistry it is used as a proliferation marker in the identification, control of treatment and follow-up of malignant disease, mainly of hematological malignancies. Recombinant human TK1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for TK1 recombinant protein	Epigenomics
References	Chang Z.F., et al. (1998) J. Biol. Chem. 273:12095-12100; Kreidberg J.A., et al. (1986) Mol. Cell. Biol. 6:2903-2909

NCBI AND UNIPROT INFORMATION

NCBI GI #	164698438
NCBI GeneID	7083
NCBI Accession #	NP_003249.3
NCBI GenBank Nucleotide #	NM_003258.4
UniProt Accession #	P04183; Q969V0; Q9UMG9; B2RC58
Molecular Weight	28.0 kDa (258aa) confirmed by MALDI-TOF
NCBI Official Full Name	thymidine kinase, cytosolic isoform 1
NCBI Official Synonym Full Names	thymidine kinase 1
NCBI Official Symbol	TK1
NCBI Official Synonym Symbols	TK2
NCBI Protein Information	thymidine kinase, cytosolic
UniProt Protein Name	Thymidine kinase, cytosolic
UniProt Gene Name	TK1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tk1-recombinant-protein-e-coli-sds-page/48751>