

herpesvirus 1 Thymidine kinase (TK) Recombinant Protein | TK recombinant protein

Recombinant Human herpesvirus 1 Thymidine kinase (TK)

CATALOG # AAA18691	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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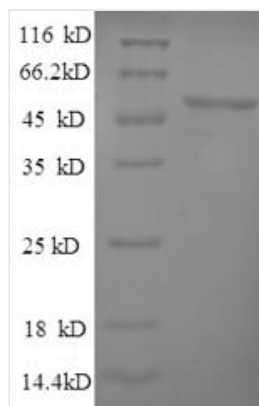
PRODUCT SYNONYMS

herpesvirus 1 Thymidine kinase (TK); Recombinant Human herpesvirus 1 Thymidine kinase (TK); TK recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-376aa; Full Length
Sequence	MASYPCHQHA SAFDQAARSR GHNNRRRTALR PRRQQEATEV RPEQKMPTLL RVYIDGPHGM GKTTTTQLLV ALGSRDDIVY VPEPMTYWRV LGASETIANI YTTQHRLDQG EISAGDAVV MTSAQITMG M PYAVTDAVLA PHIGGEAGSS HAPPPALTLI FDRHPAALL CYPAAARYLMG SMTPQAVLAF VALIPPTLPG TNIVLGALPE DRHIDRLAKR QRPGERDLA MLAAIRRVYG LLANTVRYLQ CGGSWREDWG QLSGTAVPPQ GAEPQSNAGP RPHIGDTLFT LFRAPELLAP NGDLYNVFAW ALDVLAKRLR SMHVFILDYD QSPAGCRDAL LQLTSGMVQT HVTTGPSIPT ICDLARTFAR EMGEAN
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TK recombinant protein	In latent infection, may allow the virus to be reactivated and to grow in cells lacking a high concentration of phosphorylated nucleic acid precursors, such as nerve cells that do not replicate their genome.
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References	The nucleotide sequence and transcript map of the herpes simplex virus thymidine kinase gene.McKnight S.L.Nucleic Acids Res. 8:5949-5964(1980) The complete DNA sequence of the long unique region in the genome of herpes simplex virus type 1.McGeoch D.J., Dalrymple M.A., Davison A.J., Dolan A., Frame M.C., McNab D., Perry L.J., Scott J.E., Taylor P.J. Gen. Virol. 69:1531-1574(1988) The three-dimensional structure of thymidine kinase from herpes simplex virus type 1.Wild K., Böhner T., Aubry A., Folkers G., Schulz G.E.FEBS Lett. 368:289-292(1995) Crystal structures of the thymidine kinase from herpes simplex virus type-1 in complex with deoxythymidine and ganciclovir.Brown D.G., Visse R., Sandhu G., Davies A., Rizkallah P.J., Melitz C., Summers W.C., Sanderson M.R.Nat. Struct. Biol. 2:876-881(1995) The structures of thymidine kinase from herpes simplex virus type 1 in complex with substrates and a substrate analogue.Wild K., Böhner T., Folkers G., Schulz G.E.Protein Sci. 6:2097-2106(1997) Exploring the active site of herpes simplex virus type-1 thymidine kinase by X-ray crystallography of complexes with aciclovir and other ligands.Champness J.N., Bennett M.S., Wien F., Visse R., Summers W.C., Herdewijn P., de Clercq E., Ostrowski T., Jarvest R.L., Sanderson M.R.3.0.CO;2-8>Proteins 32:350-361(1998) Structure to 1.9-A resolution of a complex with herpes simplex virus type-1 thymidine kinase of a novel, non-substrate inhibitor X-ray crystallographic comparison with binding of aciclovir.Bennett M.S., Wien F., Champness J.N., Batuwangala T., Rutherford T., Summers W.C., Sun H., Wright G., Sanderson M.R.FEBS Lett. 443:121-125(1999) Nucleoside binding site of herpes simplex type 1 thymidine kinase analyzed by X-ray crystallography.Vogt J., Perozzo R., Pautsch A., Prota A., Schelling P., Pilger B., Folkers G., Scapozza L., Schulz G.E.3.0.CO;2-8>Proteins 41:545-553(2000)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	820945252
NCBI GeneID	24271467
NCBI Accession #	YP_009137097.1
NCBI GenBank Nucleotide #	NC_001806.2
UniProt Accession #	P03176
Molecular Weight	45 kDa
NCBI Official Full Name	thymidine kinase
NCBI Official Symbol	UL23
NCBI Protein Information	involved in nucleotide metabolism; thymidine kinase
UniProt Protein Name	Thymidine kinase
UniProt Gene Name	TK
UniProt Entry Name	KITH_HHV11

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.