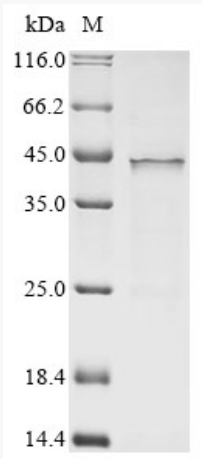


for research use only
Datasheet

Product Name	Recombinant Human herpesvirus 1 Thymidine kinase(TK)
Catalog Number	AAA18691
Expression host	<i>E.coli</i>
Product Info	N-terminal 6xHis-tagged
Storage Buffer	0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Catalyzes the transfer of the gamma-phospho group of ATP to thymidine to generate dTMP in the salvage pathway of pyrimidine synthesis. The dTMP serves as a substrate for DNA polymerase during viral DNA replication. Allows the virus to be reactivated and to grow in non-proliferative cells lacking a high concentration of phosphorylated nucleic acid precursors.
AA sequence	MASYPCHQHASAFDQAARSRGHNNRRTALRPRRQQEATEVRPEQKMPTLLR VYIDGPHGMGKTTTTQLLVALGSRDDIVYVPEPMTYWRVLGASETIANIYTT QHRLDQGEISAGDAAVVM TSAQITMGMPYAVTDAVLAPHIGGEAGSSHAPPP ALTLIFDRHPAALLCYP AARYLMGSMTPQAVLAFVALIPPTLPGTNIVLGALP EDRHIDRLAKRQRPGERLDLAMLAAIRRVYGLLANTVRYLQCGGSWREDWG QLSGTAVPPQGAEPQSNAGPRPHIGDTLFTLFRAPPELLAPNGDLYNVFAWALD VLAKRLRSMHVFILDYDQSPAGCRDALLQLTSGMVQTHVTTPGSIPTICDLAR TFAREMGEAN
References	"Biochemical and structural characterization of (South)-methanocarbothymidine that specifically inhibits growth of herpes simplex virus type 1 thymidine kinase-transduced osteosarcoma cells." Schelling P., Claus M.T., Johner R., Marquez V.E., Schulz G.E., Scapozza L. J. Biol. Chem. 279:32832-32838(2004)

Certificate of Analysis

Product Name	Recombinant Human herpesvirus 1 Thymidine kinase(TK)		
Catalog Number	AAA18691		
Expression host	E.coli		
Product Info	N-terminal 6xHis-tagged		
Buffer	0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol		
Batch Number	YC04546a7g5		
Nature	Human herpesvirus 1 TK-(AA 1-376)- P0DTH5 -Full Length		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 °C, one week from the date of receipt	
	Long term	-20 to -80 °C, six months from the date of receipt	
Form	Liquid		
Date of detection	2022.02.24		
Test Items	Specifications		Results
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.2 mg/ml
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 45.0 kDa		Observed band size: 45 kDa

for research use only

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	0.2 µm sterile filtered
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass