

Product datasheet for **AR50434PU-S**

Thymidine kinase 1 (TK1) (1-234, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Thymidine kinase 1 (TK1) (1-234, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHEMSCINL PTVLPGSPSK TRGQIQVILG PMFSGKSTEL MRRVRRFQIA QYKCLVIKYA KDTRYSSSFC THDRNTMEAL PACLLRDVAQ EALGVAVIGI DEGQFFPDIV EFCEAMANAG KTVIVAALDG TFQRKPFQAI LNLVPLAESV VKLTAVCMCE FREAAAYTKRL GTEKEVEVIG GADKYHSVCR LCYFKKASGQ PAGPDNKENC PVPGKPGAEV AARKLFAPQQ ILQCSPAN
Tag:	His-tag
Predicted MW:	28.0 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001333592
Locus ID:	7083
UniProt ID:	K7ES52
Cytogenetics:	17q25.3
Synonyms:	Thymidine kinase cytosolic, TK-1



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Summary:

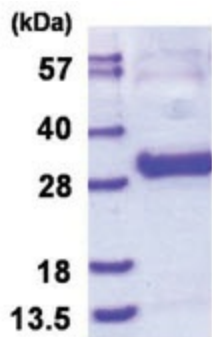
The protein encoded by this gene is a cytosolic enzyme that catalyzes the addition of a gamma-phosphate group to thymidine. This creates dTMP and is the first step in the biosynthesis of dTTP, which is one component required for DNA replication. The encoded protein, whose levels fluctuate depending on the cell cycle stage, can act as a low activity dimer or a high activity tetramer. High levels of this protein have been used as a biomarker for diagnosing and categorizing many types of cancers. [provided by RefSeq, Oct 2016]

Protein Families:

Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

Product images:

15% SDS-PAGE (3ug)