

Product datasheet for **TP700037**

Thymidine Kinase 1 (TK1) (NM_003258) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human thymidine kinase 1, soluble (TK1), expressed in human cells
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC218280, encoding human full-length TK1
Tag:	C-DDK
Predicted MW:	27 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003249
Locus ID:	7083
UniProt ID:	P04183
RefSeq Size:	1616
Cytogenetics:	17q25.3
RefSeq ORF:	702
Synonyms:	TK2



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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: