

## Product datasheet for **AR50475PU-N**

### Thymidine kinase 2 (TK2) (34-265, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Thymidine kinase 2 (TK2) (34-265, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHEMVQRRR WPPDKEQEKE KKSVCIVEGN IASGKTTCLE FFSNATDVEV LPEPVSKWRN VRGHNPLGLM YHDASRWGLT LQTYVQLTML DRHTRPQVSS VRLMERSIHS ARYIFVENLY RSGKMPEVDY VVLEWFDWI LRNMDVSVDL IVYLRNTPET CYQRLKKRCR EEEKVIPLEY LEAIIHHLHEE WLKIGSLFPM AAPVLVIEAD HHMERMLELF EQNRDRILTP ENRKHCP
Tag:	His-tag
Predicted MW:	30.2 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer, pH 8.0, 30% glycerol, 2 mM DTT, 200 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TK2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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:	<a href="#">NP_001166114</a>
Locus ID:	7084
UniProt ID:	<a href="#">O00142</a>
Cytogenetics:	16q21
Synonyms:	Thymidine kinase 2 mitochondrial, TK-2



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**Summary:**

This gene encodes a deoxyribonucleoside kinase that specifically phosphorylates thymidine, deoxycytidine, and deoxyuridine. The encoded enzyme localizes to the mitochondria and is required for mitochondrial DNA synthesis. Mutations in this gene are associated with a myopathic form of mitochondrial DNA depletion syndrome. Alternate splicing results in multiple transcript variants encoding distinct isoforms, some of which lack transit peptide, so are not localized to mitochondria. [provided by RefSeq, Dec 2012]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

**Product images:**