Recombinant Human TK2 Protein, His-tagged

Cat. No. TK2-914H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TK2, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	50mM Tris, 8M Urea, pH8.0.
Molecular Mass	27.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	TK2 thymidine kinase 2, mitochondrial [Homo sapiens]

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Official Symbol	TK2
Synonyms	TK2; thymidine kinase 2, mitochondrial; mt-TK; MTTK; MTDPS2;
Gene ID	7084
mRNA Refseq	NM_001172643
Protein Refseq	NP_001166114
MIM	188250
UniProt ID	O00142

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