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TK2, 34-265aa Human, His tag, E.coli

产品货号: TP04229

第三版

别名: thymidine kinase 2, mitochondrial, MTDPS2, MTTK

**描述:** TK2, also known as thymidine kinase 2 mitochondrial, belongs to the DCK-DGK family. Thymidine kinase is an enzyme, a phosphotransferase (a kinase): 2-deoxythymidine kinase, ATP-thymidine 5-phosphotransferase, It can be found in most living cells. It is present in two forms in mammalian cells, TK1 and TK2. Certain viruses also have genetic information for expression of viral thymidine kinases. Thymidine kinases have a key function in the synthesis of DNA and thereby in cell division, as they are part of the unique reaction chain to introduce deoxythymidine into the DNA. Defects in TK2 are a cause of mitochondrial DNA depletion syndrome type 2 (MTDPS2). A disorder characterized primarily by childhood onset of muscle weakness associated with depletion of mtDNA in skeletal muscle. Recombinant human TK2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**配方:** Liquid. In 20 mM Tris-HCl buffer, pH8.0, 30% glycerol, 2mM DTT, 200mM NaCl

**分子量:** 30.2kDa (257aa), confirmed by MALDI-TOF

**序列:**

MGSSHHHHHSSGLVPRGSHMGSHMVQRRRAWPPDKEQEKEKKSVCVEGNIASGKTTCLEFFSNATDVEVLTEPVSKW  
RNVRGHNPLGLMYHDASRWGLTLQTYVQLTMLDRHTRPQVSSVRLMERSIHSARYIFVENLYRSGKMPEVDYVVLSEWF  
DWILRNMDVSVDLIVYLRTNPETCYQRLKKRCEEEKVIPLEYLEAIHHLHEEWLIKGLFPMAPVLVIEADHHMERMLE  
LFEQNRDRILTPENRKHCP

**纯度:** > 95% by HPLC

**浓度:** 0.5mg/ml (determined by Bradford assay)

**内毒素:** <1.0 EU per 1 ug of protein (determined by LAL method)

**存储:** +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.