

本公司提供的电子版本说明书仅供参考，实验请以收到的纸质手册为准。

TK1, 1-234aa, Human, His tag, E.coli

产品货号: TP04228

第三版

别名:Thymidine kinase, cytosolic, TK2

**描述:**TK1, also known as thymidine kinase, is an enzyme, a phosphotransferase (a kinase): 2'-deoxythymidine kinase, ATP-thymidine 5'-phosphotransferase. It is present in two forms in mammalian cells, TK1 and TK2. 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. Deoxythymidine is present in the body fluids as a result of degradation of DNA from food and from dead cells. Thymidine kinase is required for the action of many antiviral drugs. It is used to select hybridoma cell lines in production of monoclonal antibodies. In clinical chemistry it is used as a proliferation marker in the diagnosis, control of treatment and follow-up of malignant disease, mainly of hematological malignancies. Recombinant human TK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**配方:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

**分子量:**28.0 kDa (258aa) confirmed by MALDI-TOF

**序列:**

MGSSHHHHHSSGLVPRGSHMGSHMSCINLPTVLPGPSKTRGQIQVILGPMFSGKSTELMRRVRRFQIAQYKCLVIKYA  
KDRYSSSFCTHDRNTMEALPACLLRDVAQEALGVAVIGIDEGQFFPDIVFCEAMANAGKTVIVAALDGTFRKPFGAIL  
NLVPLAESVVKLTAVCMCEFREAAAYTKRLGTEKEVEVIGGADKYH SVCRLCYFKKASGQPAGPDNKENCVPVPGKPGEA  
V  
AARKLFAPQQILQCSPAN

**纯度:**> 95% by HPLC

**浓度:**1 mg/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.