

Datasheet for ABIN7319084 **TK1 Protein (His tag)**

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Overview

Quantity:	50 µg
Target:	TK1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TK1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TK1 Protein (His Tag)
Sequence:	Met 1-Asn234
Characteristics:	Recombinant Human Thymidine kinase, Cytosolic is produced by our Mammalian expression system and the target gene encoding Met1-Asn234 is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	TK1
Alternative Name:	TK1 (TK1 Products)
Background:	Background: Thymidine kinase 1(TK1) belongs to the thymidine kinase family. It is located in the cytoplasm, and phosphorylated on Ser-13 in mitosis during post-translational modification.

Target Details

Two forms of this protein have been identified in animal cells, one in cytosol TK1 and one in mitochondria 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. Activity of the cytosolic enzyme is high in proliferating cells and peaks during the S-phase of the cell cycle, while it is very low in resting cells. TK1 acts as a homotetramer, and can transform thymidine to thymidine 5'-phosphate with the help of ATP

Synonym: Thymidine kinase, cytosolic,TK1

Molecular Weight: 26.5 kDa

UniProt: [P04183](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl,150 mM NaCl,1 mM DTT,2 mM EDTA, 10 % Glycerol, pH 7.5.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.