Recombinant Human TTK protein, His-tagged

Cat. No. TTK-392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TTK(Gly532~Leu786) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly532~Leu786
Description	This gene encodes a dual specificity protein kinase with the ability to phosphorylate tyrosine, serine and threonine. Associated with cell proliferation, this protein is essential for chromosome alignment at the centromere during mitosis and is required for centrosome duplication. It has been found to be a critical mitotic checkpoint protein for accurate segregation of chromosomes during mitosis. Tumorigenesis may occur when this protein fails to degrade and produces excess centrosomes resulting in aberrant mitotic spindles. Alternative splicing results in multiple transcript variants.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	33.3kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 95%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	TTK TTK protein kinase [Homo sapiens]
Official Symbol	TTK
Synonyms	TTK; TTK protein kinase; dual specificity protein kinase TTK; cancer/testis antigen 96; CT96; MPS1L1; monopolar spindle 1-like 1; phosphotyrosine picked threonine kinase; phosphotyrosine picked threonine-protein kinase; ESK; PYT; MPS1; FLJ38280;
Gene ID	7272
mRNA Refseq	NM_003318
Protein Refseq	NP_003309
MIM	604092

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UniProt ID	P33981
Chromosome Location	6q13-q21
Pathway	Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem;
Function	ATP binding; binding; nucleotide binding; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity;

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