

## Recombinant Full Length human TKT protein,His-tagged

**Cat. No.** TKT-12HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length human TKT protein,His-tagged was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 1-623 aa                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | TKT, also known as transketolase, is a thiamine-dependent enzyme which plays a role in the channeling of excess sugar phosphates to glycolysis in the pentose phosphate pathway. Multiple alternatively spliced variants,encoding the same protein, have been identified. Recombinant human TKT protein, fused to His-tag at Nterminus, was expressed in E. coli and purified by using conventional chromatography techniqu. |
| <b>Tag</b>              | His                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 70 kDa                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MESYHKPDQQ KLQALKDTAN RLRISSIQAT TAAGSGHPTS<br>CCSAAEIMAVLFFHTMRYKS QDPRNPHNDR FVLSKGHAAP ILYAVWAEAG<br>FLAEAELLNL RKISSDLDDGH PVPKQAFTDV ATGSLGQGLG<br>AACGMAYTGK YFDKASYRVY CLLGDGELSE GSVWEAMAF A SIYKLDNLVA<br>ILDINRLGQS DPAPLQHQM D IYQKRCEAFG<br>WHAIIVDGH S VEELCKAFGQ AKHQPTAIIA KTFKGRGITG VEDKESWHGK                                                                                                              |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

PLPKNMAEQI IQEIYSQIQS KKKILATPPQ  
 EDAPSVDIAN IRMPSLPSYK VGDKIATRKA YGQALAKLGH ASDRIIALDG  
 DTKNSTFSEI FKKEHPDRFI ECYIAEQNMV  
 SIAVGCATRN RTVPFCSTFA AFFTRAQDQI RMAAISESNI NLCGSHCGVS  
 IGEDGPSQMA LEDLAMFRSV PTSTVFYPSD  
 GVATEKAVEL AANTKGICFI RTSRPENAI YNNNEDFQVG QAKVVLKSKD  
 DQVTVIGAGV TLHEALAAAE LLKKEKINIR  
 VLDPFTIKPL DRKLILDSAR ATKGRILTVE DHYYEGGIGE AVSSAVVGEP  
 GITVTHLAVN RVPRSGKPAE LLKMFGIDRD  
 AIAQAVRGLI TKA

|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 85% by SDS-PAGE                                                                                                                             |
| <b>Applications</b>   | SDS-PAGE                                                                                                                                      |
| <b>Notes</b>          | For research use only. This product is not intended or approved for human, diagnostics or veterinary use.                                     |
| <b>Storage</b>        | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>  | 0.25mg/ml (determined by Bradford assay)                                                                                                      |
| <b>Storage Buffer</b> | Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl, 1mM DTT                                                          |
| <b>References</b>     | Choudhary C. et al. (2009) Science 325:834-840.                                                                                               |

## GENE INFORMATION

**Gene Name** TKT transketolase [ Homo sapiens (human) ]

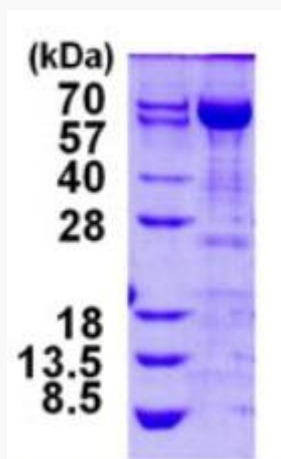
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|                        |                             |
|------------------------|-----------------------------|
| <b>Official Symbol</b> | TKT                         |
| <b>Synonyms</b>        | Transketolase, TK, TKT1,TKT |
| <b>Gene ID</b>         | 7086                        |
| <b>mRNA Refseq</b>     | NM_001064                   |
| <b>Protein Refseq</b>  | NP_001055                   |
| <b>UniProt ID</b>      | P29401                      |

3ug by SDS-PAGE  
under reducing  
condition and  
visualized by  
coomassie blue  
stain.



15% SDS-PAGE(3ug)