

Recombinant human Transketolase/TKT protein

Catalog Number: ATGP1446

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-623aa

UniProt No.

P29401

NCBI Accession No.

NP_001055

Alternative Names

Transketolase, TK, TKT1

PRODUCT SPECIFICATION

Molecular Weight

70 kDa (643aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

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.

BACKGROUND

Description

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 N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH> MESYHKPDQQ KLQALKDTAN RLRISIQAT TAAGSGHPTS CCSAAEIMAV

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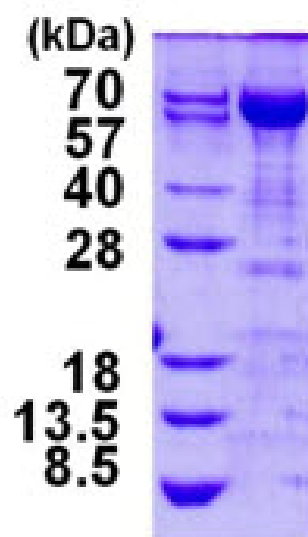
LFFHTMRYKS QDPRNPHNDR FVLSKGHAAP ILYAVWAEAG FLAEAELLNL RKISSDLGDH PVPKQAFDTV ATGSLGQGLG
AACGMAYTGK YFDKASYRVY CLLGDGELSE GSVWEAMAF A SIYKLDNLVA ILDIRLQGS DPAPLQHQM D IYQKRCEAFG
WHAIIVDGHS VEELCKAFGQ AKHQPTAIIA KTFKGRGITG VEDKESWHGK PLPKNMAEQI IQEISQIQS KKKILATPPQ
EDAPSVDIAN IRMPSLPSYK VGDKIATRKA YGQALAKLGH ASDRIIALDG DTKNSTFSEI FKKEHPDRFI EGYIAEQNMV
SIAVGCATRN RTVPCSTFA AFFTRAFDQI RMAAISESNI NLCGSHCGVS IGEDGPSQMA LEDLAMFRSV PTSTVFYPSD
GVATEKAVEL AANTKGICFI RTSRPENAI I YNNEDFQVG QAKVVLKSKD DQVTVIGAGV TLHEALAAAE LLKKEKINIR
VLDPFTIKPL DRKLILDSAR ATKGRILTVE DHYYEGGIGE AVSSAVVGEP GITVTHLAVN RVPRSGKPAE LLKMFIDRD
AIAQAVRGLI TKA

General References

Choudhary C. et al. (2009) Science 325:834-840

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)