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 SSGLVPRGSH> MESYHKPDQQ KLQALKDTAN RLRISSIQAT TAAGSGHPTS CCSAAEIMAV

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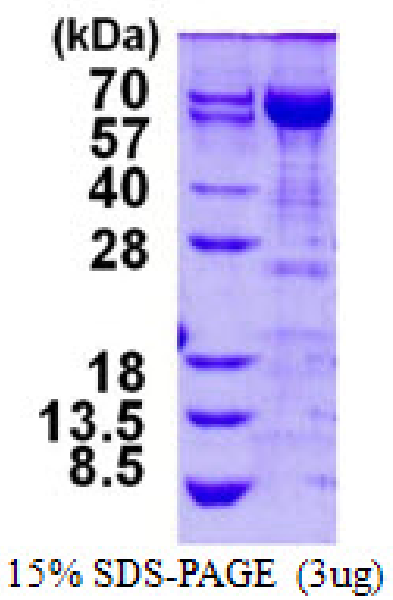
LFFHTMRYKS QDPRNPHNDR FVLSKGHAAP ILYAVWAEAG FLAEAELLNL RKISSDLDGH PVPKQAFTDV ATGSLGQGLG AACGMAYTGK YFDKASYRVY CLLGDGELSE GSVWEAMAFA SIYKLDNLVA ILDINRLGQS DPAPLQHQMD IYQKRCEAFG WHAIIVDGHS VEELCKAFGQ AKHQPTAIIA KTFKGRGITG VEDKESWHGK PLPKNMAEQI IQEIYSQIQS KKKILATPPQ EDAPSVDIAN IRMPSLPSYK VGDKIATRKA YGQALAKLGH ASDRIIALDG DTKNSTFSEI FKKEHPDRFI ECYIAEQNMV SIAVGCATRN RTVPFCSTFA AFFTRAFDQI RMAAISESNI NLCGSHCGVS IGEDGPSQMA LEDLAMFRSV PTSTVFYPSD GVATEKAVEL AANTKGICFI RTSRPENAII YNNNEDFQVG QAKVVLKSKD DQVTVIGAGV TLHEALAAAE LLKKEKINIR VLDPFTIKPL DRKLILDSAR ATKGRILTVE DHYYEGGIGE AVSSAVVGEP GITVTHLAVN RVPRSGKPAE LLKMFGIDRD 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.