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AR50271PU-S Human Transketolase (TKT) (1-623, His-tag) - Purified

Quantity: 50 µg

Concentration: 0.25 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P29401

NCBI: NP_001055

GeneID: 7086

Species: Human

Source: E. coli

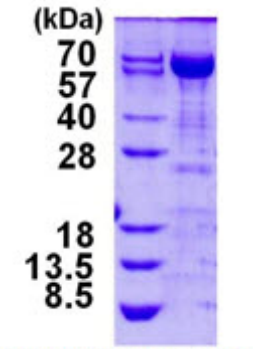
Format:
State: Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M Nacl, 1mM DTT

Description: Recombinant human TKT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MESYHKPDQQ KLQALKDTAN RLRISSIQAT TAAGSGHPTS
CCSAAEIMAV 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
Molecular weight: 70.0 kDa (643aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

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

Pictures:



15% SDS-PAGE (3ug)