

TKT, 1-623aa, Human, His tag, E.coli

Cat.NO.: TP04230

3th Edition

Synonyms:Transketolase, TK, TKT1

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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M NaCl, 1mM DTT

Molecular Weight:70.0 kDa (643aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMESYHKPDQQKLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHT
MRYKSQDPRNPHNDRFVLSKGAAPILYAVWAEAGFLAEALLNLRKISSDLDGHPVPKQAFDVTGSLGQGLGA
ACGMAYTGKYFDKASYRVYCLLDGELSEGSVWEAMAFASIYKLDNLVAILDINRLGQSDPAPLQHQMDIYQKRCE
AFGWHAIIVDGHSVEELCKAFGQAKHQPTAIIAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKKILA
TPPQEDAPSVDIANIRMPSLPSYKVGDKIATRKYGQALAKLGHASDRIIALDGDTKNSTFSEIFKKEHPDRFIECYIA
EQNMVSIAVGCATRNRTVPCSTFAAFFTRAQIRMAAISESNINLCGSHCGVSIQEDGPSQMALEDLAMFRSVPT
STVFYPSDGVATEKAVELAANTKGICFIRTSRPENAIYNNNEDFQVGQAKVVLKSKDDQVTVIGAGVTLHEALAAAE
LLKKEKINIRVLDPFITKPLDRKLILDSARATKGRILTVEDHYEYEGGIGEAVSSAVVGEPIVTHLAVNRVPRSGKPAE
LLKMFIDRDAIAQAVRGLITKA

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.