

Recombinant Human TKT, His-tagged

Cat. No. TKT-30354TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 29-540 of Human Transketolase with an N terminal His tag. Predicted MWt: 57 kDa;
Species	Human
Source	E.coli
ProteinLength	29-540 a.a.
Description	This gene encodes 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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 145 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ATTAAGSGHPTSCCSAAEIMAVLFFHTGKYFDKASYRVYC LLGDGELSEGSVWEA MAFASIYKLDNLVAILDINRLGQ SDPAPLQHQMIDIYQKRCEAFGWHAIIVDGHSVEEL

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CKA FGQAKHQPTAIIAKTFKGRGITGVEDKESWHGKPLPKNMA EQIIQEIYSQIQSK
 KKILATPPQEDAPSVDIANIRMPS LPSYKVGDKIATRKAYGQALAKLGHASDRIIALDG
 DTK NSTFSEIFKKEHPDRFIECYIAEQNMVSIAVGCATRNRTV PFCSTFAAFFTRAF
 DQIRMAAISESNINLCGSHCGVSI GEDGPSQMALEDLAMFRSVPTSTVFYPSDGVAT
 EKAVE LAANTKGICFIRTSRPENAIYNNNEDFQVGQAKVVLKSK DDQVTVIGAGVTL
 HEALAAAELLKKEKINIRVLDPFTI KPLDRKLILDSARATKGRILTVEDHYYEGGIGEAV
 SSA VVGEPGITVTHLAVNRVPRSGKPAELLKMFIDRDAIAQA VRGLITKA

Sequence
Similarities Belongs to the transketolase family.

GENE INFORMATION

Gene Name	TKT transketolase [Homo sapiens]
Official Symbol	TKT
Synonyms	TKT; transketolase; Wernicke Korsakoff syndrome;
Gene ID	7086
mRNA Refseq	NM_001064
Protein Refseq	NP_001055
MIM	606781
Uniprot ID	P29401
Chromosome Location	3p14.3

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Pathway	Insulin effects increased synthesis of Xylulose-5-Phosphate, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem;
Function	magnesium ion binding; monosaccharide binding; thiamine pyrophosphate binding; transferase activity; transketolase activity;

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