

Recombinant Human TKTL1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TKTL1-3166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TKTL1 MS Standard C13 and N15-labeled recombinant protein (NP_036385) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a transketolase that acts as a homodimer and catalyzes the conversion of sedoheptulose 7-phosphate and D-glyceraldehyde 3-phosphate to D-ribose 5-phosphate and D-xylulose 5-phosphate. This reaction links the pentose phosphate pathway with the glycolytic pathway. Variations in this gene may be the cause of Wernicke-Korsakoff syndrome. Three transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	65.4 kDa
AA Sequence	MADAEARAEFPPEARPDRTGLQVFQDMASRLRIHSIRATCSTSSGHPTSCSSSSEIM SVLFFYIMRYKQSDPENPDNDRFVLAKRLSFVDVATGWLGQGLGVACGMAYTGKY FDRASYRVFCLMSDGESSEGSVWEAMAFASYSLDNLVATFDVNRLGHSGALPAE HCINIYQRRCEAFGWNTYVVDGRDVEALCQVFWQASQVKHKPTAVVAKTFKGRGT PSIEDAESWHAKPMPRERADAIKLIESQIQTSRNLDPPPIEDSPEVNITDVRMTSP DYRVGDKIATRKACGLALAKLGYANNRVVLDGDTRYSTFSEIFNKEYPERFIECFM AEQNMVSVALGCASRGRTIAFASTFAAFLTRAFDHIRIGGLAESNINIIGSHCGVSVG

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DDGASQMALEDIAMFRTIPKCTIFYPTDAVSTEHAVALAANAKGMCFIRTRPETMVI
YTPQERFEIGQAKVLRHCVSDKVTVIGAGITVYEALAADELSKQDIFIRVIDLFTIKPL
DVATIVSSAKATEGRIITVEDHYPQGGIGEAVCAAVSMDPDIQVHSLAVSGVPQSGK
SEELDMYGISARHIIVAVKMLLNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TKTL1 transketolase-like 1 [Homo sapiens (human)]

Official Symbol TKTL1

Synonyms TKTL1; transketolase-like 1; transketolase-like protein 1; TKR; TKT2; TK 2; transketolase-2; transketolase-related protein;

Gene ID 8277

mRNA Refseq NM_012253

Protein Refseq NP_036385

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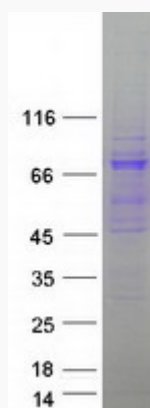
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MIM 300044

UniProt ID P51854

SDS-PAGE



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