

## TKT Human

**Description:** TKT Human Recombinant produced in E. coli is a single polypeptide chain containing 643 amino acids (1-623) and having a molecular mass of 70.0kDa. TKT is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-595

For research use only.

**Synonyms:** Transketolase, TK, TKT1, EC 2.2.1.1.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MESYHKPDQQ KLQALKDTAN  
RLRISSIQAT TAAGSGHPTS CCSAAEIMAV LFFHTMRYKS QDPRNPHNDR FVLSKGHAAP  
ILYAVWAEAG FLAEALLNL RKISSDLGSH PVPKQAFDVA ATGSLGQGLG AACGMAYTGK  
YFDKASYRVY CLLGDGELSE GSVWEAMAFASIIYKLDNLVA ILDIRLQGS DPAPLQHQMD  
IYQKRCEAFG WH

**Purity:** Greater than 85% as determined by SDS-PAGE.

### Formulation:

The TKT solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

TKT is a thiamine-dependent enzyme that takes part in the channeling of leftover sugar phosphates to glycolysis in the pentose phosphate pathway. Multiple alternatively spliced variants are known that encode the same protein.

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