
Product Data Sheet

Product Name: TKT Human
 Cat. No.: GP22306
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Transketolase; TK; TKT1; EC 2.2.1.1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MESYHKPDQQ KLQALKDTAN RLRISIQAT TAAGSGHPTS CCSAAEIMAV LFFHTMRYKS QDPRNPHNDR FVLSKGHAAP ILYAVWAEAG FLAEAELLNL RKISSDLGSH PVPKQAFTDV ATGSLGQGLG AACGMAYTGK YFDKASYRVY CLLGDGELSE GSVWEAMAFAS IYKLDNLVA ILDINRLGQS DPAPLQHQM D 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 RTSRPENAI YNNNEDFQVG QAKVVLKSKD DQVTVIGAGV TLHEALAAAE LLKKEKINIR VLDPFTIKPL DRKLILDSAR ATKGRILTVE DHYYEGGIGE AVSSAVVGEP GITVTHLAVN RVPRSGKPAE LLKMFGIDRD AIAQAVRGLI TKA.</p>		
Formulation	The TKT solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.		

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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