

TKT Protein, Human

Cat. No.:	HY-P701864
Synonyms:	TKT; Transketolase; TK
Species:	Human
Source:	E. coli
Accession:	P29401 (E2-A623)
Gene ID:	7086
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	TKT protein is essential for catalyzing the transfer of a two-carbon ketol group from a ketose donor to an aldose acceptor. This process is facilitated by the formation of a covalent intermediate with the cofactor thiamine pyrophosphate. The enzymatic activity of TKT protein plays a critical role in various metabolic pathways, including the pentose phosphate pathway and the Calvin cycle. The transfer of the ketol group is a key step in these pathways, enabling the conversion of sugars and the generation of important intermediates for energy production and biosynthesis. TKT protein's function is crucial for maintaining metabolic flux and contributing to the overall balance of carbohydrate metabolism in the cell.
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Caution: Product has not been fully validated for medical applications. For research use only.

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