

# Recombinant Human TPI1

Cat. No. TPI1-31613TH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Triosephosphate isomerase, expressed in <i>Saccharomyces cerevisiae</i> , amino acids 1-249. MW 26.6 kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	1-249 a.a.
<b>Description</b>	This gene encodes an enzyme, consisting of two identical proteins, which catalyzes the isomerization of glyceraldehydes 3-phosphate (G3P) and dihydroxy-acetone phosphate (DHAP) in glycolysis and gluconeogenesis. Mutations in this gene are associated with triosephosphate isomerase deficiency. Pseudogenes have been identified on chromosomes 1, 4, 6 and 7. Alternative splicing results in multiple transcript variants.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MAPSRKFFVGGNWKMNGRKQSLGELIGTLNAAKVPADTEV VCAPPTAYIDFARQKL DPKIAVAAQNCYKVTNGAFTGE ISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQ

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KVAH ALA EGLGV IACIG EKLDEREAGITEKVVFEQTKVIADN VKDWSKVVLAYEPVW  
 AIGTGKTATPQQAQEVHEKLRGW LKSNVSDAVAQSTRIIYGGSVTGATCKELASQP  
 DVDGF LVGGASLKPEFVDIINAKQ

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** [TPI1 triosephosphate isomerase 1 \[ Homo sapiens \]](#)

**Official Symbol** [TPI1](#)

**Synonyms** TPI1; triosephosphate isomerase 1; triosephosphate isomerase;

**Gene ID** [7167](#)

**mRNA Refseq** [NM\\_000365](#)

**Protein Refseq** [NP\\_000356](#)

**Uniprot ID** [P60174](#)

**Chromosome Location** 12p13.31

**Pathway** Fatty Acid Beta Oxidation, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>

**Function** isomerase activity; triose-phosphate isomerase activity; triose-phosphate isomerase

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