

Recombinant Human TPI1

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

SPECIFICATION

Product Overview	Recombinant full length Human Triosephosphate isomerase, expressed in <i>Saccharomyces cerevisiae</i> , amino acids 1-249. MW 26.6 kDa.
Species	Human
ProteinLength	1-249 a.a.
Description	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.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MAPSRKFFVGGNWKMNGRKQSLGELIGTLNAAKVPADTEV VCAPPTAYIDFARQKL DPKIAVAAQNCYKVTNGAFTGE ISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQ

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KVAH ALAEGLGVIACIGEKLDEREAGITEKVVFEQTKVIADN 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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