

## Active Recombinant Human TPI1 Protein, His-tagged

Cat. No. TPI1-10H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TPI enzyme (active) with a N-terminal His-tag was produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.
<b>Species</b>	Human
<b>Source</b>	<i>Nicotiana Benthamiana</i>
<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>	Lyophilized
<b>Bio-activity</b>	Active. >1000 mU/mg. Measuring the conversion of dihydroxyacetone phosphate (DHAP) to glyceradehyde-3-phosphate (GAP).
<b>Molecular Mass</b>	54 kDa dimer (2x 27 kDa subunits)
<b>Purity</b>	>99%
<b>Applications</b>	SDS-PAGE, Western Blot, functional assays

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**Storage** Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade.  
It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage Buffer** 20 mM Tris-HCl, pH 7.5, 175 mM Trehalose Dihydrate and 0.9 mM DTT.

## GENE INFORMATION

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

**Official Symbol** TPI1

**Synonyms** TPI1; triosephosphate isomerase 1; TIM; TPI; TPID; HEL-S-49; triosephosphate isomerase; epididymis secretory protein Li 49; methylglyoxal synthase; triose-phosphate isomerase; EC 4.2.3.3; EC 5.3.1.1

**Gene ID** 7167

**mRNA Refseq** NM\_000365

**Protein Refseq** NP\_000356

**MIM** 190450

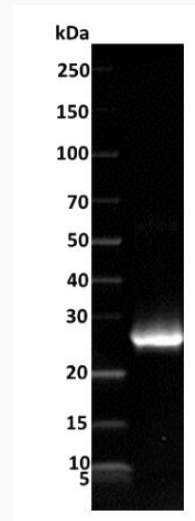
**UniProt ID** P60174

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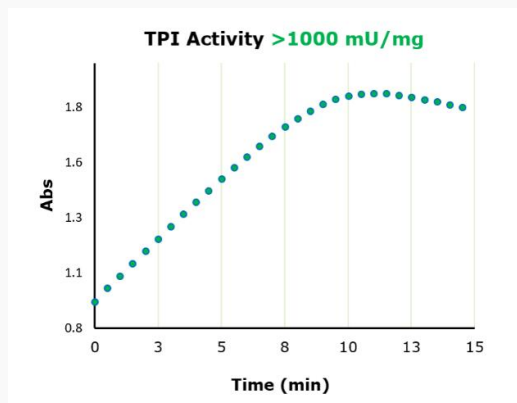
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**SDS-PAGE**



Reducing 4-20% SDS-PAGE analysis of 5 g TPI.

**Activity**



Latter stage of TPI activity assay showing linear change in absorption (450 nm) over 15 minutes up until reaction saturation.

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