

Bioactive

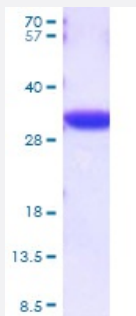
Full-Length

TPI1 (Human) Recombinant Protein

Catalog # P6948

Size 100 ug

Applications



3 ug SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Specification

Product Description	Human TPI1 (NP_000356, 1 - 249 a.a.) full length recombinant protein with His tag expressed in <i>Escherichia coli</i> expression system.
Host	Escherichia coli
Theoretical MW (kDa)	28.8
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU/ug
Activity	Specific activity is > 3000 units/mg, in which one unit will convert 1.0 umole of D-glyceraldehyde-3-phosphate to dihydroxyacetone phosphate per minute at pH 7.5 at 25°C.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue 3 ug SDS-PAGE under reducing condition and visualized by coomassie blue stain.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.

Storage Buffer

In 20 mM Tris-HCl, 1 mM DTT, pH 8.0 (10% glycerol)

Storage Instruction

Store at 4°C for one week. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — TPI1

Entrez GeneID[7167](#)**Protein Accession#**[P60174](#)**Gene Name**

TPI1

Gene Alias

MGC88108, TPI

Gene Description

triosephosphate isomerase 1

Omim ID[190450](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

Other Designations

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Pathway

- [Carbon fixation in photosynthetic organisms](#)
- [Fructose and mannose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Inositol phosphate metabolism](#)

- [Metabolic pathways](#)

Disease

- [Malaria](#)