

# Recombinant Human Triosephosphate isomerase/TPI1 Protein

Catalog No.: RP02792LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7167	P60174

### Tags

N-His

### Synonyms

Triosephosphate Isomerase; TIM; Triose-Phosphate Isomerase; TPI1; TPI

## Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

### Endotoxin

<1EU/μg

### Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris-HCl, 1mM DTT, 10% Glycerol, pH 8.0.

### Reconstitution

## Background

Triose-phosphate isomerase, also named Triose-phosphate isomerase, TPI and TIM, is an enzyme that catalyzes the reversible interconversion of the triose phosphate isomers dihydroxyacetone phosphate and D-glyceraldehyde 3-phosphate. TPI has been found in nearly every organism searched for the enzyme, including animals such as mammals and insects as well as in fungi, plants, and bacteria. However, some bacteria that do not perform glycolysis, like ureaplasmas, lack TPI. TPI plays an important role in glycolysis and is essential for efficient energy production. TPI deficiency is an autosomal recessive disorder and the most severe clinical disorder of glycolysis. Triose phosphate isomerase deficiency is associated with neonatal jaundice, chronic hemolytic anemia, progressive neuromuscular dysfunction, cardiomyopathy and increased susceptibility to infection and characterized by chronic hemolytic anemia.

## Basic Information

### Description

Recombinant Human Triosephosphate isomerase/TPI1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Gln249) of human Triosephosphate isomerase/TPI1 (Accession #NP\_000356.1) fused with a 6xHis tag at the N-terminus.

### Bio-Activity

### Storage

This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

## Contact

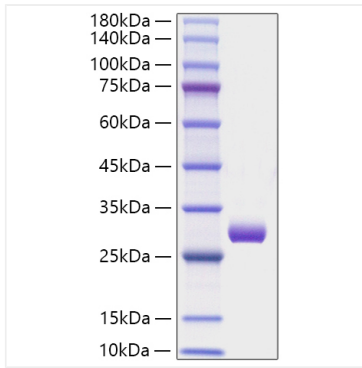
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## Validation Data

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Recombinant Human Triosephosphate isomerase/TPI1 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 25-35 kDa.