

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. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 28.8 kDa | 30 kDa |

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 6×His tag at the N-terminus.

Bio-Activity

Storage

Store at -70°C. 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. Avoid repeated freeze/thaw cycles.

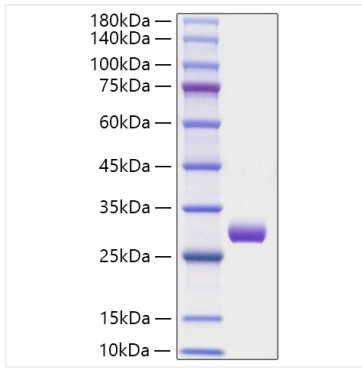
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Validation Data



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