abcam

Product datasheet

Recombinant Human Triosephosphate isomerase protein ab100826

1 References 1 Image

Description

Product name	Recombinant Human Triosephosphate isomerase protein
Purity	> 95 % SDS-PAGE. ab100826 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	P60174
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHHSSGLVPRGSH**MAPSRKFFVGGNWKMN GRKQSLGELIGTLN AAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKV TNGAFTGEIS PGMIKDCGATWVVLGHSERRHVFGESDELIGQKVAHALA EGLGVIACIGE KLDEREAGITEKVVFEQTKVIADNVKDWSKVVLAYEPVW AIGTGKTATPQ QAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKE LASQPDVDGF LVGGASLKPEFVDIINAKQ
Predicted molecular weight	29 kDa including tags
Amino acids	1 to 249
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab100826** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF

Form	Liquid

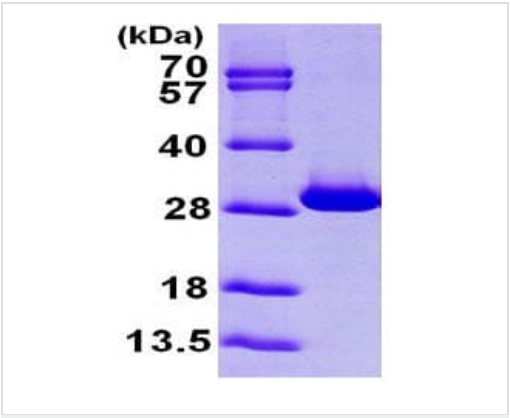
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine)

General Info

Relevance	Triosephosphate isomerase (TIM) catalyses the reversible interconversion of G3P and DHAP. Only G3P can be used in glycolysis, therefore TIM is essential for energy production, allowing two molecules of G3P to be produced for every glucose molecule, thereby doubling the energy yield. Defects in TPI1 are the cause of triosephosphate isomerase deficiency (TPI deficiency) [MIM:190450]. TPI deficiency is an autosomal recessive disorder. It is the most severe clinical disorder of glycolysis. It is associated with neonatal jaundice, chronic hemolytic anemia, progressive neuromuscular dysfunction, cardiomyopathy and increased susceptibility to infection.
Cellular localization	Cytoplasmic and Nuclear; extracellular vesicle exosome; extracellular space.

Images



SDS-PAGE - Recombinant Human Triosephosphate isomerase protein (ab100826)

15% SDS-PAGE analysis of 3µg ab100826.

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