

# Recombinant Bovine TPI1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08528

**Protein Name:** Methylglyoxal Synthase (TPI1)

**Aliases:** TIM; TPI; TPID; HEL-S-49; methylglyoxal synthase; triosephosphate isomerase; triose-phosphate isomerase

**UniProt ID:** P60174

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P60174/entry>

**Species Source:** Bos taurus (Bovine)

**Expression System:** E.coli

**Protein Length:** Full Length (1-249aa)

**Molecular Weight:** 34.1 kDa

**Protein Tag:** N-terminal 10xHis-tagged and C-terminal Myc-tagged

## 2. Amino Acid Sequence (1-249aa)

MAPSRKFFVGGNWKMNNGRKNLNLGELINTLNAAKVPADTEVVCAPPTAYIDFARQKL  
DPKIAVAAQNCYKVANGAFTGEISPGMIKDLGATWVVLGHSERRHVFGEDELIGQ  
KVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKVIADNVKDWSKVVLAYEPVW  
AIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSARIYGGSVTGATCKELASQP  
DVDGFLVGGASLKPEFVDIINAKQ

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the



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protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Bovine TPI1 full length protein (1-249aa) expressed in E.coli. The protein is dual-tagged with 10xHis tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification. TPI1, also known as TIM or TPI or TPID, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.