

Recombinant strain K12 RPIA Protein Product Manual

1. Product Basic Information

Product No.: REP08088

Protein Name: Ribose 5-Phosphate Epimerase (RPIA)

Aliases: RPI; RPIAD; phosphoriboisomerase; ribose 5-phosphate epimerase; ribose-5-phosphate isomerase; ribose 5-phosphate isomerase A

UniProt ID: P49247

UniProt Link: <https://www.uniprot.org/uniprotkb/P49247/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length (1-219a)

Molecular Weight: 49.9 kDa

Protein Tag: N-terminal GST-tagged

2. Amino Acid Sequence (1-219a)

MTQDELKKA V GWAALQYVQPGTIVGVGTGSTAAHFIDALGTMKGQIEGAVSSSDAS
TEKLKSLGIHVFDLNEVDSLGIYVDGADEINGHMQMIKGGGAALTREKIIASVAEKFIC
IADASKQVDILGKFPLPVEVIPMARS AVARQLVKLGGRPEYRQGVVTDNGNVILDVH
GMEILDPIAMENAINAIPGVVTVGLFANRGADVALIGTPDGVKTIVK

3. Storage Buffer

Liquid Delivery Form: Tris-based buffer with 50% glycerol.

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 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 strain K12 RPIA full length protein (1-219a) expressed in E.coli. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. RPIA, also known as RPI or RPIAD or phosphoriboisomerase, 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.