

## Recombinant Human RPIA, His-tagged

Cat. No. RPIA-31147TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 32-311 of Human RPIA with N terminal His tag; Predicted MWt 31 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	32-311 a.a.
<b>Description</b>	The protein encoded by this gene is an enzyme, which catalyzes the reversible conversion between ribose-5-phosphate and ribulose-5-phosphate in the pentose-phosphate pathway. This gene is highly conserved in most organisms. The enzyme plays an essential role in the carbohydrate metabolism. Mutations in this gene cause ribose 5-phosphate isomerase deficiency. A pseudogene is found on chromosome 18.
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitute with 64 µl aqua dest.
<b>Storage buffer</b>	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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**Sequences of amino acids**

NSWDLPGSHVRLPGRAQSGTRGGAGNTSTSCGDSNSICPA PSTMSKAEEAKKLA  
 GRAAVENHVRNNQVLGIGSGSTIV HAVQRIAERVKQENLNLVCIPTSFQARQLILQY  
 GLTLS DLDRHPEIDL AIDGADEV DADLNLIKGGGGCLTQEKIV AGYASRFIVIADFRK  
 DSKNLGDQWHKGIPIEVIPMAYVPV SRAVSQKFGGVVELRMAVNKAGPVVTDNGN  
 FILDWKFD RVHKWSEVNTAIKMIPGVVDTGLFINMAERVYFGMQDG SVNMREKPF  
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**Sequence Similarities**

Belongs to the ribose 5-phosphate isomerase family.

## GENE INFORMATION

**Gene Name** [RPIA ribose 5-phosphate isomerase A \[ Homo sapiens \]](#)

**Official Symbol** [RPIA](#)

**Synonyms** RPIA; ribose 5-phosphate isomerase A; ribose-5-phosphate isomerase; ribose 5 phosphate epimerase;

**Gene ID** [22934](#)

**mRNA Refseq** [NM\\_144563](#)

**Protein Refseq** [NP\\_653164](#)

**MIM** [180430](#)

**Uniprot ID** [P49247](#)

**Chromosome Location** 2p11.2

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**Pathway**

Metabolic pathways, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem; Pentose Phosphate Pathway, organism-specific biosystem; Pentose phosphate pathway, organism-specific biosystem; Pentose phosphate pathway, conserved biosystem;

**Function**

isomerase activity; monosaccharide binding; ribose-5-phosphate isomerase activity;

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