

Recombinant Human RPIA, His-tagged

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 32-311 of Human RPIA with N terminal His tag; Predicted MWt 31 kDa.
Species	Human
Source	E.coli
ProteinLength	32-311 a.a.
Description	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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 64 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

NSWDLPGSHVRLPGRAQSGTRGGAGNTSTSCGDSNSICPA PSTMSKAEEAKKLA
 GRAAVENHVRNNQVLGIGSGSTIV HAVQRIAERVKQENLNLVCIPTSFQARQLILQY
 GLTLS DLDRHPEIDLAIDGADEVDA DLNLIKGGGGCLTQEKIV AGYASRFIVIADFRK
 DSKNLGDQWHKGIPIEVIPMAYVPV SRAVSQKFGGVVELRMAVNKAGPVVTDNGN
 FILDWKFD RVHKWSEVNTAIKMIPGVVDTGLFINMAERVYFGMQDG SVNMRKPF
 C

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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