

Recombinant Human RPIA, His-tagged

Cat. No. RPIA-31148TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RPIA with N terminal His tag; 331 amino acids with tag, Predicted MWt 35.4 kDa.
Species	Human
Source	E.coli
ProteinLength	311 amino acids
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
Molecular Weight	35.400kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.03% DTT, 40% Glycerol, 1.17% Sodium

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	chloride, 0.06% EDTA, 0.004% PMSF
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMQRPGPFSTLYGRVLAPLPG RAGGAASGGGGNS WDLPGSHVRLPGRAQSGTRGGAGNTST SCGDSNSICPAPSTMSKAEAKLAGR AAVENHVRNNQVL GIGSGSTIVHAVQRIAERVKQENLNLVCIPTSFQARQLIL QYGL TLSDLDRHPEIDLADGADEVADLNLKGGGGCLT QEKIVAGYASRFIVIADFRKDSK NLGDQWHKGIPIEVIPM AYVPVSRAVSQKFGGVVELRMAVNKAGPVVTDNGNFILD W KFDRVHKWSEVNTAIKMIPGVVDTGLFINMAERVYFGMQD GSVNMREKPFC
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

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Uniprot ID	P49247
Chromosome Location	2p11.2
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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