

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: 8.00 Constituents: 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

MGSSHHHHHSSGLVPRGSHMQRPFPSTLYGRVLAPLPG RAGGAASGGGGNS
 WDLPGSHVRLPGRAQSGTRGGAGNTST SCGDSNSICPAPSTMSKAEAKLAGR
 AAVENHVRNNQVL GIGSGSTIVHAVQRIAERVKQENLNLVCIPTSFQARQLIL QYGL
 TSLDLDRHPEIDLDAIDGADEVDA DLNLIKGGGGCLT QEKIVAGYASRFVIADFRKDSK
 NLGDQWHKGIPIEVIPM AYVPVSRAVSQKFGGVVELRMAVNKAGPVVTDNGNFILD
 W KFDRVHKWSEVNTAIKMIPGVVDTGLFINMAERVYFGMQD GSVNMREKPFPC

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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