

# Recombinant Full Length Human Ribulose-5-Phosphate-3-Epimerase, His-tagged

**Cat. No.** RPE-1934H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human RPE protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	1-228 a.a.
<b>Description</b>	RPE (ribulose-phosphate 3-epimerase) belongs to the ribulose-phosphate 3-epimerase family. In enzymology, ribulose-phosphate 3-epimerase is the enzyme that converts D-ribulose 5-phosphate into D-xylulose 5-phosphate in Calvin's reductive pentose phosphate cycle. Hence, this enzyme has one substrate, D-ribulose 5-phosphate, and one product, D-xylulose 5-phosphate. This enzyme participates in 3 metabolic pathways: pentose phosphate pathway, pentose and glucuronate interconversions, and carbon fixation.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 30% glycerol, 200mM NaCl.
<b>Molecular Weight</b>	27.5kDa (252aa), confirmed by MALDI-TOF
<b>Purity</b>	> 95% by SDS-PAGE

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<b>Concentration</b>	0.5 mg/ml(determined by Bradford assay)
<b>Sequences of aminoacids</b>	MGSSHHHHHSSGLVPRGSH MGSHTMASGCK IGPSILNSDL ANLGAECLRM LD SGADYLHL DVMDGHFVPNITFGHPVVES LRKQLGQDPF FDMHMMVSKP EQWVKPMAVA GANQYTFHLE ATENPGALIK DIRENGMKVGLAIKPGTSVE YLAPWANQID MALVMTVEPG FGGQKFMEDM MPKVHHLRQTQ FPSLDIEVDG GVGPDTVHKCAEAGANMIVS GSAIMRSEDP RSVINLLRNV CSEAAQKRSL DR
<b>Storage</b>	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoidrepeated freezing and thawing cycles.
<b>Pathways</b>	Metabolic pathways; Pentose andglucuronate interconversions; Pentose phosphate pathway

## GENE INFORMATION

<b>Gene Name</b>	RPEribulose-5-phosphate-3-epimerase [ Homo sapiens ]
<b>Official Symbol</b>	RPE
<b>Synonyms</b>	RPE; ribulose-5-phosphate-3-epimerase;RPE2-1; MGC2636; RPE; ribulose-phosphate3-epimerase; OTTHUMP00000206412; HUSSY-17; OTTHUMP00000206413;OTTHUMP00000206435; OTTHUMP00000206438; OTTHUMP00000206440;OTTHUMP00000206441; OTTHUMP00000206444
<b>Gene ID</b>	6120
<b>mRNA Refseq</b>	NM_006916
<b>Protein Refseq</b>	NP_008847

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<b>MIM</b>	180480
<b>UniProt ID</b>	Q96AT9
<b>Chromosome Location</b>	2q32-q33.3
<b>Function</b>	isomerase activity; proteinbinding; ribulose-phosphate 3-epimerase activity

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