

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

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

SPECIFICATION

Product Overview	Recombinant human RPE protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Protein Length	1-228 a.a.
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 30% glycerol, 200mM NaCl.
Molecular Weight	27.5kDa (252aa), confirmed by MALDI-TOF
Purity	> 95% by SDS-PAGE

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Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHTMASGCK IGPSILNSDL ANLGAECRLM LD SGADY LHL DVMDGHFVPNITFGHPVVES LRKQLGQDPF FDMHMMVSKP EQWVKPMAVA GANQYTFHLE ATENPGALIK DIRENGMKVGLAIKPGTSVE YLAPWANQID MALVMTVEPG FGGQKFMEDM MPKVHWLRTQ FPSLDIEVDG GVGPDTVHKCAEAGANMIVS GSAIMRSEDP RSVINLLRNV CSEAAQKRSL DR
Storage	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.
Pathways	Metabolic pathways; Pentose andglucuronate interconversions; Pentose phosphate pathway

GENE INFORMATION

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

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

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