

**Product Name: Recombinant Human RPE (C-6His)**  
**Catalog #: PEH1440**



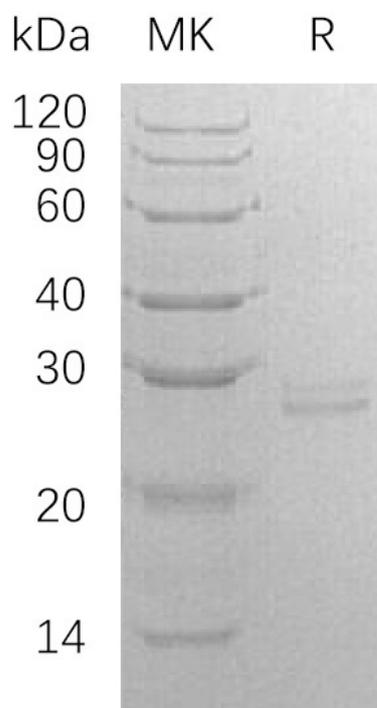
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## Summary

<b>Name</b>	Ribulose-phosphate 3-epimerase/RPE
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Ribulose-Phosphate 3-Epimerase is produced by our E.coli expression system and the target gene encoding Met1-Arg228 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	Q96AT9-1
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	25.9 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 10% Sucrose, 0.05% Tween80, pH7.2.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image

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### **Alternative Names**

Ribulose-Phosphate 3-Epimerase; Ribulose-5-Phosphate-3-Epimerase; RPE; HUSSY-17

### **Background**

Ribulose-Phosphate 3-Epimerase (RPE) is a member of the Ribulose-Phosphate 3-Epimerase family. RPE exists as a homodimer and catalyzes the reversible epimerization of D-ribulose 5-phosphate to D-xylulose 5-phosphate. RPE binds one divalent metal cation per subunit and contains tightly bound  $Fe^{2+}$  when produced in *E. coli*, but the physiological cofactor may be  $Co^{2+}$ ,  $Mn^{2+}$  or  $Zn^{2+}$ . It has been shown that RPE participates in 3 metabolic pathways: pentose phosphate pathway, pentose and glucuronate interconversions, and carbon fixation.

### **Note**

For Research Use Only , Not for Diagnostic Use.