

## Recombinant Human RPE Protein (E.coli, His Tag)

**Catalog Number: PKSH033347**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

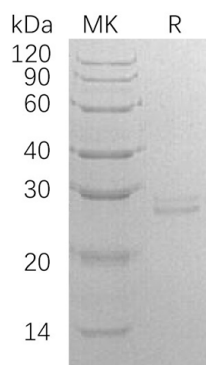
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human RPE protein Met 1-Arg228, with an C-terminal His
<b>Calculated MW</b>	25.9 kDa
<b>Observed MW</b>	28 kDa
<b>Accession</b>	Q96AT9-1
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 6.2.

### Data



> 95 % as determined by reducing SDS-PAGE.

### 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<sup>2+</sup> when produced in E. coli, but the physiological cofactor may be Co<sup>2+</sup>, Mn<sup>2+</sup> or Zn<sup>2+</sup>. It has been shown that RPE participates in 3 metabolic pathways: pentose phosphate pathway, pentose and glucuronate interconversions, and carbon fixation.