

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

Catalog No. PKSH033347

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

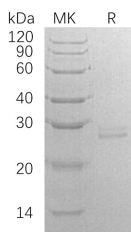
Description

Synonyms	Ribulose-Phosphate 3-Epimerase;Ribulose-5-Phosphate-3-Epimerase;RPE;HUSSY-17;RPE2-1
Species	Human
Expression Host	E.coli
Sequence	Met 1-Arg228
Accession	Q96AT9-1
Calculated Molecular Weight	25.9 kDa
Observed molecular weight	28 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 6.2.
Reconstitution	Not Applicable

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 Fe²⁺ when produced in E. coli, but the physiological cofactor may be Co²⁺, Mn²⁺ or Zn²⁺. It has been shown that RPE participates in 3 metabolic pathways: pentose phosphate pathway, pentose and glucuronate interconversions, and carbon fixation.

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