

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

RPES2428

Product Data:

Product SKU: RPES2428 **Size:** 10μg

Species: Human Expression host: E. coli

Uniprot: Q96AT9

Protein Information:

Molecular Mass: 25.9 kDa

AP Molecular Mass: 28 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ 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: Please refer to the printed manual for detailed information.

Application:

Synonyms: Ribulose-Phosphate 3-Epimerase; Ribulose-5-Phosphate-3-Epimerase; RPE;

HUSSY7;RPE2

Immunogen Information:

Sequence: Met 1-Arg228

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.