

**Recombinant Human Ribulose-Phosphate 3-Epimerase Protein**

**Cat.NO.: TP05395**

3th Edition

**Synonyms:**Ribulose-Phosphate 3-Epimerase; Ribulose-5-Phosphate-3-Epimerase; RPE; HUSSY-17

**Description:**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.

**Form:**PBS

**Molecular Weight:**25.9 kDa

**Sequences:**Met 1-Arg228

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.