

## 32-8153: Recombinant Human Ribulose-Phosphate 3-Epimerase/RPE (C-6His)

**Gene :** RPE  
**Gene ID :** 6120  
**Uniprot ID :** Q96AT9

### Description

Source: E. coli.  
MW :25.9kD.

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. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 6.2.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MASGCKIGPSILNSDLANLGAELRMLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDMHMM  
VSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMALVMTVEP  
GFGGQKFMEDMMPKVHWRQTQFPSLDIEVDGGVGPDTVHKCAEAGANMIVSGSAIMRSEDPRSVINLLRNVC  
SEAAQKRSLDRVDHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.