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

Catalog No. PKSH033347

Description

Synonyms	Ribulose-Phosphate 3-Epimerase; Ribulose-5-Phosphate-3-Epimerase; RPE; HUSSY-17;RPE2-1
Species	Human
Expression_host	E.coli
Sequence	Met1-Arg228
Accession	Q96AT9-1
Mol_Mass	25.9 kDa
AP_Mol_Mass	28 kDa
Tag	C-6His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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

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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