

RPE Human

Description: RPE Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 252 amino acids (1-228) and having a molecular mass of 27.5kDa. RPE is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-591

For research use only.

Synonyms: Ribulose-phosphate 3-epimerase, Ribulose-5-phosphate-3-epimerase, RPE, HUSSY-17, RPE2-1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MGSHMASGCK IGPSILNSDL
ANLGAELCRM LDGADYLHL DVMDGHFVFN ITFGHPVVES LRKQLGQDPF FDMHMMVSKP
EQWVKPMAVA GANQYTFHLE ATENPGALIK DIRENGMKVG LAIKPGTSVE YLAPWANQID
MALVMTVEPG FGGQKFMEDM MPKVHWLRTQ FPSLDIEVDG GVGPDTVHKC AEAGANMIVS
GSAIMRSEDP RS

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

The RPE solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol and 200mM NaCl.

Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Ribulose-phosphate 3-epimerase (RPE) is a member of the ribulose-phosphate 3-epimerase family. RPE is the enzyme which converts D-ribulose 5-phosphate into D-xylulose 5-phosphate in Calvin's reductive pentose phosphate cycle. Therefore, the RPE enzyme has one substrate, D-ribulose 5-phosphate, and one product, D-xylulose 5-phosphate. RPE participates in three metabolic pathways: pentose phosphate pathway, pentose and glucuronate interconversions, and carbon fixation.

Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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