

## RPIA Human

**Description:** RPIA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 331 amino acids (1-311) and having a molecular mass of 35.4kDa. RPIA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-235

For research use only.

**Synonyms:** Ribose-5-phosphate isomerase, Phosphoriboisomerase, RPIA, RPI.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MQRPGPFSTL YGRVLAPLPG  
RAGGAASGGG GNSWDLPGSH VRLPGRAQSG TRGGAGNTST SCGDSNSICP APSTMSKAE  
AKKLAGRAAV ENHVRNNQVL GIGSGSTIVH AVQRIAERVK QENLNLVCIP TSFQARQLIL  
QYGLTSLDLD RHPEIDLAI DGADEVADLN LIKGGGGCLT QEKIVAGYAS RFIVIADFRK  
DSKNLGDQWH KG

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The RPIA solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 40% glycerol, 200mM NaCl, 2mM EDTA and 0.2mM PMSF.

### Stability:

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.

### 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:

Ribose-5-phosphate isomerase (RPIA) is a member of the ribose 5-phosphate isomerase family. RPIA is an enzyme which catalyzes the conversion between ribose-5-phosphate (R5P) and ribulose-5-phosphate (Ru5P). RPI occurs as 2 separate proteins forms, termed RPIA and RPIB. RPIA has a vital role in the metabolism of plants and animals, as it is involved in the Calvin cycle which takes place in plants, and the pentose phosphate pathway which occurs in plants as well as animals.

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