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**Product Data Sheet**


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Product Name: RPIA Human  
 Cat. No.: GP22231  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ribose-5-phosphate isomerase; Phosphoriboisomerase; RPIA; RPI.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MQRPGPFSTL YGRVLAPLPG RAGGAASGGG GNSWDLPESH VRLPGRASG TRGGAGNTST SCGDSNSICP APSTMSKAE AKKLAGRAAV ENHVRNNQVL GIGSGSTIVH AVQRIAERVK QENLNLVCIP TSFQARQLIL QYGLTSLDL RHPEIDLAI DGADEVADLN LIKGGGGCLT QEKIVAGYAS RFIVIADFRK DSKNLGDQWH KGIPIEVIPM AYVPVSRAVS QKFGGVVELR MAVNKAGPVV TDNGNFILDW KFDRVHKWSE VNTAIKMIPG VVDTGLFINM AERVYFGMQD GSVNMREKPF C.		
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.		

**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.

**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.

**Background**

RPIA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

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