

## Product datasheet for **TP302183L**

### RPIA (NM\_144563) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human ribose 5-phosphate isomerase A (RPIA), 1 mg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC202183 representing NM\_144563  
**Red**=Cloning site **Green**=Tags(s)

MQRPGPFSTLYGRVLAPLPGRAGGAASGGGGNSWDLPGSHVRLPGRAQSGTRGGAGNTSTSCGDSNSICP  
APSTMSKAEAEAKKLAGRAAVENHVRNNQVLGIGSGSTIVHAVQRIAERVKQENLNLVCIPTSFQARQLIL  
QYGLTSLDLRHPIDLAIIDGADEVADLNLIKGGGGCLTQEKIVAGYASRFVIADFRKDSKNLGDQWH  
KGIPIEIVPMAYVPVSRAVSQKFGGVVELRMAVNKAGPVVTDNGNFILDWKFDRVHKWSEVNTAIKMIPG  
VVDTGLFINMAERVYFGMQDGSVNMREKPFCC

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 33.1 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  
**RefSeq:** [NP\\_653164](#)  
**Locus ID:** 22934



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UniProt ID: [P49247](#)

RefSeq Size: 1834

Cytogenetics: 2p11.2

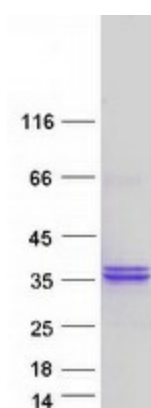
RefSeq ORF: 933

Synonyms: RPI; RPIAD

**Summary:** The protein encoded by this gene is an enzyme, which catalyzes the reversible conversion between ribose-5-phosphate and ribulose-5-phosphate in the pentose-phosphate pathway. This gene is highly conserved in most organisms. The enzyme plays an essential role in the carbohydrate metabolism. Mutations in this gene cause ribose 5-phosphate isomerase deficiency. A pseudogene is found on chromosome 18. [provided by RefSeq, Mar 2010]

**Protein Pathways:** Metabolic pathways, Pentose phosphate pathway

### Product images:



Coomassie blue staining of purified RPIA protein (Cat# [TP302183]). The protein was produced from HEK293T cells transfected with RPIA cDNA clone (Cat# [RC202183]) using MegaTran 2.0 (Cat# [TT210002]).