

Recombinant Human RPLP1 Protein, His-tagged

Cat. No. RPLP1-2662H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human RPLP1 Protein (Ala2-Asp114) with a N-His tag was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Ala2-Asp114

Description

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal phosphoprotein that is a component of the 60S subunit. The protein, which is a functional equivalent of the E. coli L7/L12 ribosomal protein, belongs to the L12P family of ribosomal proteins. It plays an important role in the elongation step of protein synthesis. Unlike most ribosomal proteins, which are basic, the encoded protein is acidic. Its C-terminal end is nearly identical to the C-terminal ends of the ribosomal phosphoproteins P0 and P2. The P1 protein can interact with P0 and P2 to form a pentameric complex consisting of P1 and P2 dimers, and a P0 monomer. The protein is located in the cytoplasm. Two alternatively spliced transcript variants that encode different proteins have been observed. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 15.1 kDa Accurate Molecular Mass: 19 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	RPLP1 ribosomal protein lateral stalk subunit P1 [Homo sapiens (human)]
Official Symbol	RPLP1
Synonyms	RPLP1; ribosomal protein lateral stalk subunit P1; P1; LP1; RPP1; 60S acidic ribosomal protein P1

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acidic ribosomal phosphoprotein P1
large ribosomal subunit protein P1
ribosomal protein, large, P1


Gene ID [6176](#)

mRNA Refseq [NM_001003](#)

Protein Refseq [NP_000994](#)

MIM [180520](#)

UniProt ID [P05386](#)

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