

Recombinant Human Ribosomal Protein L8, His-tagged

Cat. No. RPL8-5549H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human RPL8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Species	Human
Source	E.coli
Description	RPL8 (60S ribosomal protein L8) belongs to the ribosomal protein L2P family. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. The protein belongs to the L2P family of ribosomal proteins. It is located in the cytoplasm and exists as a component of the 60S subunit where it is thought to play a role in aminoacyl-tRNA binding, specifically at the ribosomal subunit interface.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 50% glycerol, 300mM NaCl, 2mM EDTA.
Molecular Weight	30.2kDa (277aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS - PAGE.
Concentration	0.25mg/ml (determined by Bradford assay).
Sequences of	MGSSHHHHHSSGLVPRGSH MGRVIRGQRK GAGSVFRAHV KHRKGAARLR

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aminoacids

AVDFAERHGY IKGIVKDIH DPGRGAPLAKVVFRDPYRFK KRTELFIAAE
 GIHTGQFVYC GKKAQLNIGN VLPVGTMPPEG TIVCCLEEKP
 GDRGKLARASGNyatVISHN PETKKTRVKL PSGSKKVISS ANRAVVGVVA
 GGGRIDKPIL KAGRAYHKYK AKRNCWPRVRGVAMNPVEHP FGGGNHQHIG
 KPSTIRRDAP AGRKVGLIAA RRTGRLRGTK TVQEKEN

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

OfficialSymbol

RPL8

Pathways

Cap-dependentTranslation Initiation; Cytoplasmic Ribosomal Proteins; DevelopmentalBiology; Diabetes pathways; Eukaryotic Translation Elongation; EukaryoticTranslation Initiation; Eukaryotic Translation Termination; Formation of apool of free 40S subunits; GTP hydrolysis and joining of the 60S ribosomalsubunit; Metabolism; Metabolism of mRNA; Nonsense Mediated Decay Independentof the Exon Junction Complex; Ribosome; TNF-alpha/NF-kB Signaling Pathway;Viral mRNA Translation

GENE INFORMATION

Gene Name

[RPL8 ribosomal protein L8 \[Homosapiens \]](#)

Synonyms

RPL8;ribosomal protein L8; L8; 60S ribosomal protein L8

Gene ID

[6132](#)

mRNA Refseq

[NM_000973](#)

Protein Refseq

[NP_000964](#)

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MIM	604177
UniProt ID	P62917
Chromosome Location	8q24.3
Function	RNA binding; rRNA binding; structural constituent of ribosome

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