

Recombinant Human Ribosomal Protein L8, His-tagged

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

SPECIFICATION

Product Overview	Recombinant humanRPL8 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by conventional chromatography, after refolding of the isolatedinclusion bodies in a renaturation buffer.
Species	Human
Source	E.coli
Description	RPL8 (60S ribosomal protein L8) belongs to the ribosomal protein L2Pfamily. Ribosomes, theorganelles that catalyze protein synthesis, consist of a small 40S subunitand a large 60S subunit. The protein belongs to the L2P family of ribosomalproteins. It is located in the cytoplasm and exists as a component of the 60S subunit where it isthought to play a role in aminoacyl-tRNA binding, specifically at theribosomal 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 (determinedby Bradford assay).
Sequences of	MGSSHHHHHHSSGLVPRGSH MGRVIRGQRK GAGSVFRAHV KHRKGAARLR

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aminoacids	AVDFAERHGY IKGIVKDIIH DPGRGAPLAKVVFRDPYRFK KRTELFIAAE GIHTGQFVYC GKKAQLNIGN VLPVGTMPGEG TIVCCLEEK GDRGKLARASGNATVISHN PETKKTRVKL PSGSKKVISS ANRAVVGVA 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

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

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