

Recombinant Human ribosomal protein S5, His-tagged

Cat. No. RPS5-388H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RPS5, 1-204aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-204 a.a.
Description	40S ribosomal protein S5, also known as RPS5, is a ribosomal protein. Ribosomes, the organelles that catalyze protein synthesis, are composed of a small subunit and a large subunit that consist of over 80 distinct ribosomal proteins. RPS5 is a 204 amino acid component of the 40S complex. It exists as multiple processed pseudogenes that are scattered throughout the genome. RPS5 is expressed at variable amounts in colorectal cancer cells, suggesting a possible role in carcinogenesis. Recombinant human RPS5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT
Molecular Mass	25.3 Da (227aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTIEWETA APAVAETPDI KLFGKWSTDD VQINDISLQD YIAVKEKYAK YLPHSAGRYA AKRFRKAQCP IVERLTNSMM MHGRNNGKKL MTVRIVKHAF EIIHLLTGEN PLQVLVNAIL NSGPREDSTR

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IGRAGTVRRQ AVDVSPLRRV NQAIWLLCTG AREAAFRNIK TIAECLADEL
INAAKGSSNS YAIKKKDELE RVAKSNR

Purity >90% by SDS - PAGE

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

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RPS5 ribosomal protein S5 \[Homo sapiens \]](#)

Official Symbol RPS5

Synonyms RPS5; ribosomal protein S5; 40S ribosomal protein S5; S5;

Gene ID [6193](#)

mRNA Refseq [NM_001009](#)

Protein Refseq [NP_001000](#)

MIM [603630](#)

UniProt ID [P46782](#)

Chromosome Location 19q13.4

Pathway Activation of the mRNA upon binding of the cap-binding complex and eIFs, and

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subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Disease, organism-specific biosystem; Eukaryotic Translation Elongation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Eukaryotic Translation Termination, organism-specific biosystem;

Function

RNA binding; mRNA binding; structural constituent of ribosome;

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