Recombinant Human Ribosomal Protein S3, His-tagged

Cat. No. RPS3-2421H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ribosomal protein S3 (aa 1-243) produced in*E. coli*is fused at the C-terminus to a His-tag.
Species	Human
Source	E.coli
ProteinLength	1-243 a.a.
Description	40S ribosomal protein S3 is a protein that in humans is encoded by the RPS3 gene. 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 protein that is a component of the 40S subunit, where it forms part of the domain where translation is initiated. The protein belongs to the S3P family of ribosomal proteins. Studies of the mouse and rat proteins have demonstrated that the protein has an extraribosomal role as an endonuclease involved in the repair of UV-induced DNA damage.
Source/Host	E. coli.
Purity	≥90% (SDS-PAGE).
Endotoxin Content	<1EU/μg protein (LAL-test).

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Formulation	Liquid. 0.2μm-filtered solution in 25mM TRIS-HCl, pH 8.5, containing 1mM DTT.
Long Term Storage	-20°C.
Use/Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Handling	After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	RPS3 ribosomal protein S3 [Homo sapiens]
Synonyms	ribosomal protein S3; FLJ26283; FLJ27450; MGC87870; RPS3; 40S ribosomal protein S3; IMR-90 ribosomal protein S3
Gene ID	6188
mRNA Refseq	NM_001005
Protein Refseq	NP_000996
MIM	600454
UniProt ID	P23396
Chromosome Location	11q13.3-q13.5
Pathway	Ribosome; Diabetes pathways; Gene Expression; Influenza Infection; Metabolism of proteins; Regulation of beta-cell development

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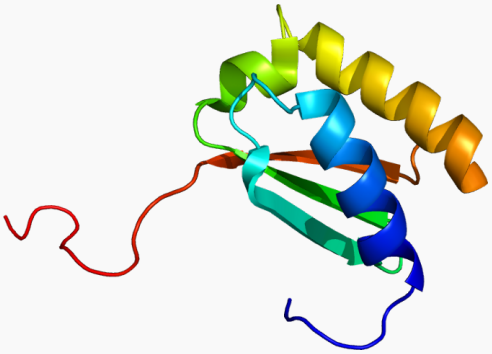
Function	DNA-(apurinic or apyrimidinic site) lyase activity; NF-kappaB binding; damaged DNA binding; endonuclease activity; iron-sulfur cluster binding; mRNA binding; protein binding; protein kinase binding; structural constituent of ribosome
PDB rendering based on 1wh9.	

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