

RPS7 Protein, Human (His)

Cat. No.:	HY-P71266
Synonyms:	40S ribosomal protein S7; RPS7
Species:	Human
Source:	E. coli
Accession:	P62081 (M1-L194)
Gene ID:	6201
Molecular Weight:	Approximately 23.0 kDa

PROPERTIES

AA Sequence	<pre> MFSSSAKIVK PNGEKPDEFE SGISQALLEL EMNSDLKAQL RELNITAAKE IEVGGGRKAI IIFVVPVQLK SFQKIQVRLV RELEKKFSGK HVVFI AQRRI LPKPTRKSRT KKNQKRPRSR TLTAVHDAIL EDLVFPSEIV GKRIRVKLDG SRLIKVHLDK AQQNNVEHKV ETFSGVYKKL TGKDVNF EFP EFQL </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>RPS7, an integral component of the small ribosomal subunit, plays a vital role in the synthesis of cellular proteins. As part of the small subunit (SSU) processome, the initial precursor of the small eukaryotic ribosomal subunit, RPS7 contributes to rRNA maturation and is actively engaged in the assembly of the SSU processome within the nucleolus. In this intricate process, numerous ribosome biogenesis factors, an RNA chaperone, and ribosomal proteins, including RPS7, collaborate to facilitate RNA folding, modifications, rearrangements, and cleavage. Additionally, RPS7 participates in the targeted degradation of pre-ribosomal RNA by the RNA exosome. A key participant in the SSU processome, comprised of more than 70 proteins and the RNA chaperone small nucleolar RNA (snoRNA) U3, RPS7 interacts with various proteins, such as IPO9, NEK6, DESI2, IPO5, IPO7, and KPNB1, highlighting its multifaceted role in ribosomal subunit assembly and nuclear import</p>
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processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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