

NIP7 Protein, Human (His)

Cat. No.:	HY-P71162
Synonyms:	60S Ribosome Subunit Biogenesis Protein NIP7 Homolog; KD93; NIP7
Species:	Human
Source:	E. coli
Accession:	Q9Y221 (M1-T180)
Gene ID:	51388
Molecular Weight:	Approximately 20.0 kDa

PROPERTIES

AA Sequence	<pre> MRPLTEETR VMFEKIAKYI GENLQLLVDR PDGTYCFRLH NDRVYYVSEK IMKLAANISG DKLVS LGTCF GKFTKTHKFR LHV TALDYLA PYAKYKVIK P G A E Q S F L Y G NHVLK SGLGR I T E N T S Q Y Q G V V V Y S M A D I P L G F G V A A K S T Q D C R K V D P M A I V V F H Q A D I G E Y V R H E E T L T </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	NIP7 plays an essential role in ensuring the accurate processing of 34S pre-rRNA and the assembly of the 60S ribosome subunit. Operating as a monomer, NIP7 interacts with the pre-ribosome complex, potentially binding to RNA and engaging in crucial interactions with various protein partners such as NOL8, SBDS, and FTSJ3. These interactions contribute to the intricate network of molecular events involved in the maturation and assembly of ribosomal subunits, highlighting the significance of NIP7 in the complex machinery of ribosome biogenesis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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