

SBDS Protein, Human (His)

Cat. No.:	HY-P74570
Synonyms:	Ribosome maturation protein SBDS; SBDS; CGI-97
Species:	Human
Source:	E. coli
Accession:	Q9Y3A5 (M1-E250)
Gene ID:	51119
Molecular Weight:	Approximately 30 kDa

PROPERTIES

AA Sequence	<pre> MSIFTPTNQI RLTNVAVVRM KRAGKRFEIA CYKNKVVGWR SGVEKDLDEV LQTHSVFVNV SKGQVAKKED LISAFGTDDQ TEICKQILTK GEVQVSDKER HTQLEQMFRD IATIVADKCV NPETKRPTYTV ILIERAMKDI HYSVKTNKST KQQALEVIKQ LKEKMKIERA HMRLRFILPV NEGKCLKKEL KPLIKVIESE DYGQQLLEIVC LIDPGCFREI DELIKKETKG KGSLEVLNLK DVEEGDEKFE </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 10% Glycerol.
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	<p>The SBDS protein is essential for the formation of mature ribosomes and the process of ribosome biogenesis. It works in conjunction with EFL1 to trigger the GTP-dependent release of EIF6 from 60S pre-ribosomes in the cytoplasm. This release activates ribosomes, allowing for the assembly of 80S ribosomes and facilitating the recycling of EIF6 back to the nucleus. In the nucleus, EIF6 is crucial for 60S rRNA processing and nuclear export. The SBDS protein is also necessary for normal protein synthesis levels and may have roles in cellular stress resistance, DNA damage response, and cell proliferation. It</p>
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associates with the 60S ribosomal subunit and interacts with NPM1, RPA1, PRKDC, NIP7, EFL1, and CLN3. Additionally, it forms a complex with the 60S ribosomal subunit, SBDS, and EFL1.

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

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