SBDS Protein, Mouse (His)

Cat. No.:	HY-P76049
Synonyms:	Ribosome maturation protein SBDS; SBDS; CGI-97
Species:	Mouse
Source:	E. coli
Accession:	P70122 (M1-E250)
Gene ID:	66711
Molecular Weight:	Approximately 30 kDa

PROPERTIES

AA Sequence	M S I F T P T N Q I R L T N V A V V R M K R G G K R F E I A C Y K N K V V G W R S G V E K D L D E V L Q T H S V F V N V S K G Q V A K K E D L I S A F G T D D Q T E I C K Q I L T K G E V Q V S D K E R H T Q L E Q M F R D I A T I V A D K C V N P E T K R P Y T V I L I E R A M K D I H Y S V K P N K S T K Q Q A L E V I K Q L K E K M K I E R A H M R L R F I L P V N E G K K L K E K L K P L M K V V E S E D Y S Q Q L E I V C L I D P G C F R E I D E L I K K E T K G R G S L E V L S L K D V E E G D E K F E
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	SBDS is an indispensable factor in the assembly of mature ribosomes and the intricate process of ribosome biogenesis. Collaborating with EFL1, it orchestrates the GTP-dependent release of EIF6 from 60S pre-ribosomes in the cytoplasm, thereby activating ribosomes for translation competence. This function involves facilitating the assembly of 80S ribosomes and ensuring EIF6 recycling to the nucleus, where it is vital for 60S rRNA processing and nuclear export. SBDS is crucial for maintaining normal levels of protein synthesis and may contribute to cellular stress resistance, DNA damage response, and cell proliferation. The protein forms associations with the 60S ribosomal subunit and interacts with key partners such as

NPM1, RPA1, and PRKDC. It is also part of a complex comprising the 60S ribosomal subunit, SBDS, and EFL1. Furthermore, SBDS may engage in interactions with NIP7 and CLN3, underscoring its multifaceted role in cellular processes.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA