

# Recombinant human SBDS protein

Catalog Number: ATGP0762

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-250aa

**UniProt No.**

Q9Y3A5

**NCBI Accession No.**

NP\_057122

**Alternative Names**

Ribosome maturation protein SBDS, CGI-97, SDS, SWDS

## PRODUCT SPECIFICATION

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**Molecular Weight**

30.9 kDa (270aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 50mM NaCl, 0.1mM EDTA

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Ribosome maturation protein SBDS is a member of a highly conserved protein family that exists from archaea to vertebrates and plants. The protein may function in RNA metabolism. It may be involved in the biogenesis of the 60S ribosomal subunit and translational activation of ribosomes. Shwachman-Diamond syndrome is a rare autosomal recessive disorder caused by mutations in the SBDS gene. Recombinant human SBDS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

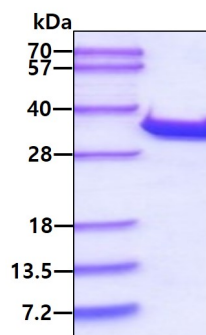
<MGSSHHHHHH SSGLVPRGSH> MSIFTPTNQI RLTNVAVVRM KRAGKRFEIA CYKNKVVGWR SGVEKDLDEV  
LQTHSVFVNV SKGQVAKKED LISAFGTDDQ TEICKQILTK GEVQVSDKER HTQLEQMFRD IATIVADKCV NPETKRPTYV  
ILIERAMKDI HYSVKTNKST KQQALEVIKQ LKEKMKIERA HMRLRFILPV NEGKKLKEKL KPLIKVIESE DYGQQLEIVC  
LIDPGCFREI DELIKKETKG KGSLEVLNLK DVEEGDEKFE

## General References

Tooviainen-Salo S., et al (2010) Duodecim. 126(14):1711-9.  
Hesling C., et al (2007) Exp. Cell Res. 313:4180-4195

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.