# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-133aa

**UniProt No.** 015116

NCBI Accession No. NP\_055277

### **Alternative Names**

u6 snRNA-associated Sm-like protein LSm1, CASM, Small nuclear ribonuclear CaSm, u6 snRNA-associated Sm-like protein LSm1

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

17.3 kDa (153aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity > 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

### Description

u6 snRNA-associated Sm-like protein LSm1, also known as LSM1 plays a role in replication-dependent histone mRNA degradation and binds specifically to the 3'-terminal u-tract of u6 snRNA. LSM1 protein facilitates RNA protein interactions and structural changes that are required during ribosomal subunit assembly. LSM1 is naturally overexpressed in pancreatic cancer as well as in certain breast cancer cell lines. Recombinant human LSM1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional



chromatography techniques.

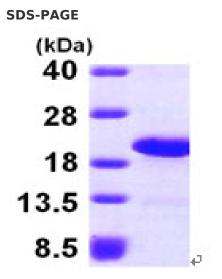
### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MNYMPGTASL IEDIDKKHLV LLRDGRTLIG FLRSIDQFAN LVLHQTVERI HVGKKYGDIP RGIFVVRGEN VVLLGEIDLE KESDTPLQQV SIEEILEEQR VEQQTKLEAE KLKVQALKDR GLSIPRADTL DEY

### **General References**

Noueiry A O., et al. (2003) Mol Cell Biol. 23:4094-4106. Kufel J., et al. (2003) J Biol Chem. 278:2147-2156.

## DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)