

Recombinant human LSM3 protein

Catalog Number: ATGP1459

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-102aa

UniProt No.

P62310

NCBI Accession No.

NP_055278

Alternative Names

u6 snRNA-associated Sm-like protein, SMX4, uSS2, YLR438C

PRODUCT SPECIFICATION

Molecular Weight

14.3 kDa (125aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl

Purity

> 90% 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

LSM3 (u6 small nuclear RNA Associated Sm-like protein) belongs to the snRNP Sm proteins family. Sm-like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family. Sm-like proteins contain the Sm sequence motif, which consists of 2 regions separated by a linker of variable length that folds as a loop. The Sm-like proteins are thought to form a stable heteromer present in tri-snRNP particles, which are important for pre-mRNA splicing. Recombinant human LSM3 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

<MGSSHHHHH SSGLVPRGSH MGS>MADDVDQ QTTNTVEEP LDLIRLSLDE RIYVKMRNDR ELRGR LHAYD
QHLNMILGDV EETVTTIEID EETYEIYKS TKRNIPMLFV RGDGVVLVAP PLRVG

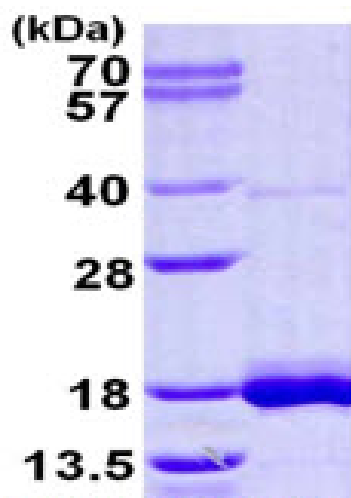
General References

Lehner, Ben, et al. (2004) Genome Res. (united States) 14 (7): 1315-23.

Achsel T., et al. (1999) EMBO J. 18:5789-5802

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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