

Human LSM1 Protein (His Tag)

Catalog Number: 14142-H07E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CASM; LSM1; YJL124C

Protein Construction:

A DNA sequence encoding the mature form of human LSM1 (O15116) (Met1-Tyr133) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human LSM1 consists of 148 amino acids and predicts a molecular mass of 17 KDa. It migrates as an approximately 19-21 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 10% glycerol, 20mM Tris, 100mM NaCl, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

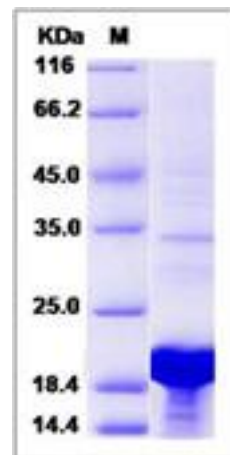
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LSM1 is a Sm-like protein. Sm-like proteins can be detected in a variety of organisms based on sequence homology with the Sm protein family. Sm-like proteins include the Sm sequence motif, which consists of two 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. LSM1 has a role in replication-dependent histone mRNA degradation and binds specifically to the 3'-terminal U-tract of U6 snRNA. LSM1 also facilitates RNA protein interactions and structural modifications which are required during ribosomal subunit assembly.

References

1. Shimizu Y, *et al.* (1997) Lineage- and differentiation stage-specific expression of LSM-1 (LPAP), a possible substrate for CD45, in human hematopoietic cells. *Am J Hematol.* 54(1):1-11.
2. Graber MW, *et al.* (1997) CaSm: an Sm-like protein that contributes to the transformed state in cancer cells. *Cancer Res.* 57(14):2961-5.
3. Séraphin B, *et al.* (1999) Sm and Sm-like proteins assemble in two related complexes of deep evolutionary origin. *EMBO J.* 18(12):3451-62.

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