

Human LSM3 Protein (His Tag)



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Biological Solution Specialist

Catalog Number: 14554-H07E

General Information

Gene Name Synonym:

SMX4; USS2; YLR438C; 1010001J12Rik; 2610005D18Rik; 6030401D18Rik; SMX4; USS2

Protein Construction:

A DNA sequence encoding the mature form of human LSM3 (Met1-Gly102) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % 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 LSM3 consists of 117 amino acids and predicts a molecular mass of 13.7 KDa. It migrates as an approximately 14-18 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 10% glycerol, pH 7.4

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:

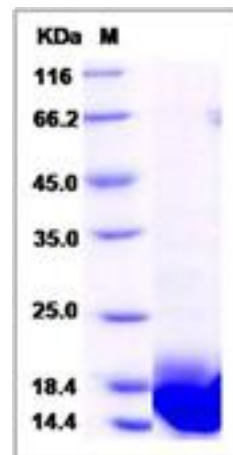
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LSM3 is a member of the snRNP Sm proteins family. Sm-like proteins can be detected in a variety of organisms. They all have 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. LSM3 binds specifically to the 3'-terminal U-tract of U6 snRNA.

References

- 1.Gerhard DS. et al., 2004, Genome Res. 14 (10B): 2121-7.
- 2.Lehner B. et al., 2004, Genome Res. 14 (7): 1315-23.
- 3.Lehner B. et al., 2004, Genomics. 83 (1): 153-67.

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