Recombinant human LSM2 protein

Catalog Number: ATGP1476

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-95aa

UniProt No.
Q9Y333

NCBI Accession No.
NP_067000

Alternative Names
U6 snRNA-associated Sm-like protein LSm2, Protein G7b, Small nuclear ribonuclear protein D homolog, snRNP core Sm-like protein Sm-x5, C6orf28, YBL026W

PRODUCT SPECIFICATION

Molecular Weight
13.4 kDa (119aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 40% glycerol, 200mM 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
LSM2 (u6 snRNA-associated Sm-like protein LSm2) 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. LSM2 binds specifically to the 3'-terminal u-tract of u6 snRNA. It is involved

in pre-mRNA splicing. Recombinant human LSM2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

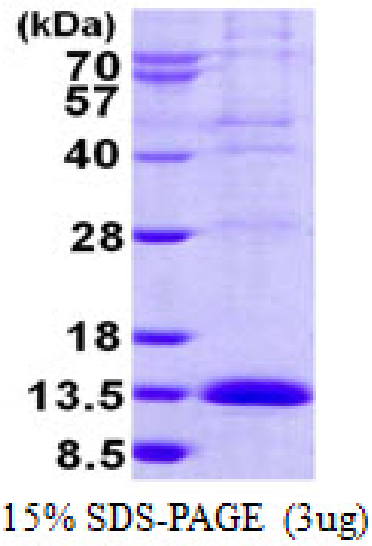
MGSSHHHHHH SSGLVPRGSH MGSHMLFYSF FKSLVGKDVV VELKNDLSIC GTLHSVDQYL NIKLTDISVT DPEKYPHMLS VKNCFIRGSV VRYVQLPADE VDTQLLQDAA RKEALQQKQ

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



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