U6 Snrna-Associated Sm-Like Protein Lsm1 (LSM1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	U6 snRNA-associated Sm-like protein LSm1 (LSM1), Recombinant Protein
Full Product Name	Recombinant Human U6 snRNA-associated Sm-like protein LSm1 (LSM1)
Product Gene Name	LSM1 recombinant protein
Sequence	MNYMPGTASL IEDIDKKHLV LLRDGRTLIG FLRSIDQFAN LVLHQTVERI HVGKKYGDIP RGIFVVRGEN VVLLGEIDLE KESDTPLQQV SIEEILEEQR VEQQTKLEAE KLKVQALKDR GLSIPRADTL DEY
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	15,179 Da
Sequence Positions	1-133, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	607281
3D Structure	ModBase 3D Structure for O15116
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LSM1 recombinant protein	MBS1218192 is a recombinant protein targeting LSM1. Also known as Recombinant Human U6 snRNA-associated Sm-like protein LSm1 (LSM1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LSM1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LSM1. It may not necessarily be applicable to this product.

NCBI GI #	7657313
NCBI GeneID	27257
NCBI Accession #	NP_055277.1
UniProt Primary Accession #	O15116
UniProt Secondary Accession #	B2R5E6
UniProt Related Accession #	O15116

GenBank Nucleotide #	NM_014462.2
NCBI Official Full Name	U6 snRNA-associated Sm-like protein LSm1
NCBI Official Synonym Full Names	LSM1 homolog, mRNA degradation associated
NCBI Official Symbol	LSM1
NCBI Official Synonym Symbols	CASM; YJL124C
UniProt Protein Name	U6 snRNA-associated Sm-like protein LSm1
UniProt Synonym Protein Names	Cancer-associated Sm-like; Small nuclear ribonuclear CaSm
Protein Family	Probable U6 snRNA-associated Sm-like protein
UniProt Gene Name	LSM1
UniProt Synonym Gene Names	CASM
NCBI Protein Information	U6 snRNA-associated Sm-like protein LSm1
NCBI Summary for LSM1	This gene encodes a member of the LSm family of RNA-binding proteins. LSm proteins form stable heteromers that bind specifically to the 3'-terminal oligo(U) tract of U6 snRNA and may play a role in pre-mRNA splicing by mediating U4/U6 snRNP formation. Increased expression of this gene may play a role in cellular transformation and the progression of several malignancies including lung cancer, mesothelioma and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Nov 2011]
UniProt Comments for LSM1	Plays a role in the degradation of histone mRNAs, the only eukaryotic mRNAs that are not polyadenylated (PubMed:18172165). Probably also part of an LSm subunits-containing complex involved in the general process of mRNA degradation ().
Research Articles on LSM1	**1.** These results provide evidence that LSm1 binding to the DENV RNA 3' UTR positively regulates DENV RNA replication.
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