

Recombinant Human LSM10

Catalog No: #GP13072



Package Size: #GP13072-1 100ug

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Description

Product Name	Recombinant Human LSM10
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1-123 amino acids of human LSM10
Target Name	LSM10, U7 small nuclear RNA associated
Other Names	MST074; MSTP074
Accession No.	Swissprot:Q969L4Gene Accession:BC007623
Uniprot	Q969L4
GeneID	84967;
Storage	-20~-80°C, pH 7.6 PBS

Background

L_{Sm}10 (U7 snRNA-associated Sm-like protein L_{Sm}10) is a nuclear protein that belongs to the snRNP (small nuclear ribonucleoproteins) Sm protein family. The survival of motor neurons (SMN) complex mediates the assembly of snRNPs involved in splicing and histone RNA processing. A crucial step in this process is the binding of Sm proteins onto the SMN protein. L_{Sm}10 and L_{Sm}11, mammalian homologs of the yeast Sm proteins D1 and D2, are important for U7 snRNP function and subcellular localization. U7 snRNP is an RNA molecule involved in the splicing of animal histone pre-mRNAs. L_{Sm}10 and L_{Sm}11 also associate with pICln (Chloride ion current inducer protein), which interacts with Sm proteins to inhibit their assembly on U RNA. L_{Sm}10 interactions with U7 snRNA and pICln may provide the means for using modified U7 snRNA derivatives to alter specific pre-mRNA splicing events, potentially leading to advances in antisense gene therapy.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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