



Recombinant Protein Technical Manual

Recombinant Human LSM4 Protein (His Tag)

RPES1824

Product Data:

Product SKU: RPES1824

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9Y4Z0

Protein Information:

Molecular Mass: 17.5 kDa

AP Molecular Mass: 17 kDa

Tag: N-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, 1mM DTT, pH 8.0 .

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: U6 snRNA-Associated Sm-Like Protein LSm4; Glycine-Rich Protein; GRP; LSM4

Immunogen Information:

Sequence: Met 1-Gln139

Background:

U6 snRNA-associated Sm-like protein LSm4 (LSM4) is a member of the snRNP Sm proteins family. Sm-like proteins contain the Sm sequence motif and are thought to form a stable heteromer present in tri-snRNP particles, which are important for pre-mRNA splicing. LSM4 forms a heteromer with a donut shape. The complexes are involved in various steps of RNA metabolism. LSM4 binds specifically to the 3-terminal U-tract of U6 snRNA. LSM4 contributes RNA protein interactions and structural changes which are essential during ribosomal subunit assembly.