

## 32-4128: Recombinant Human LSM1 Homolog, U6 Small Nuclear RNA Associated

**Alternative Name :** U6 snRNA-associated Sm-like protein LSm1, Cancer-associated Sm-like, Small nuclear ribonuclear CaSm, LSM1, CASM, YJL124C.

### Description

Source : Escherichia Coli. LSM1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 153 amino acids (1-133 a.a.) and having a molecular mass of 17.3kDa. The LSM1 is purified by proprietary chromatographic techniques. U6 snRNA-associated Sm-like protein LSm1 (LSM1) has a role in replication-dependent histone mRNA degradation and binds specifically to the 3'-terminal U-tract of U6 snRNA. Sm-like proteins include the Sm sequence motif, which consists of two regions separated by a linker of variable length that folds as a loop. The LSM1 protein facilitates RNA protein interactions and structural modifications which are required during ribosomal subunit assembly. The Sm-like proteins are believed to form a stable heteromer present in tri-snRNP particles, which are vital for pre-mRNA splicing. LSM1 is overexpressed in pancreatic cancer as well as in several breast cancer cell lines.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The LSM1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 1mM DTT, 10% glycerol and 0.1M NaCl.  
**Storage condition :** LSM1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MNYMPGTASL IEDIDKKHLV LLRDGRTLIG FLRSIDQFAN LVLHQTVRI HVGKKYGDIP RGIFVVRGEN VLLGEIDLE KESDTPLQQV SIEEILEEQR VEQQTLEAE KLVQALKDR GLSIPRADTL DEY.