

Recombinant Human LSM1 Protein (His Tag)

Catalog No. PKSH033172

Note: Centrifuge before opening to ensure complete recovery of vial contents.

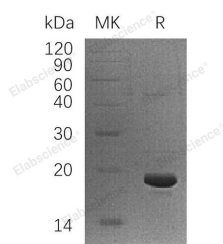
Description

Synonyms	U6 snRNA-Associated Sm-Like Protein LSm1;Cancer-Associated Sm-Like;Small Nuclear Ribonuclear CaSm;LSM1;CASM
Species	Human
Expression Host	E.coli
Sequence	Met 1-Tyr133
Accession	O15116
Calculated Molecular Weight	16.2 kDa
Observed molecular weight	19 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 PB, 150mM NaCl, pH 7.2. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

U6 snRNA-Associated Sm-Like Protein LSm1 (LSM1) belongs to the snRNP Sm proteins family. The Sm-like proteins

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are thought to form a stable heteromer present in tri-snRNP particles, which plays an important role in pre-mRNA splicing. LSM1 binds specifically to the 3-terminal U-tract of U6snRNA. LSM1 can interact with SLBP when histone mRNA is being rapidly degraded during the S phase. In addition, LSM1 is associated with cellular transformation and the progression of several malignancies including mesothelioma, lung cancer and breast cancer.