

## LSM3 Protein, Human (His)

Cat. No.:	HY-P75915
Synonyms:	U6 snRNA-associated Sm-like protein LSm3; LSM3; MDS017
Species:	Human
Source:	E. coli
Accession:	P62310 (M1-G102)
Gene ID:	27258
Molecular Weight:	Approximately 16 kDa

### PROPERTIES

AA Sequence	<p>M A D D V D Q Q Q T    T N T V E E P L D L    I R L S L D E R I Y    V K M R N D R E L R</p> <p>G R L H A Y D Q H L    N M I L G D V E E T    V T T I E I D E E T    Y E E I Y K S T K R</p> <p>N I P M L F V R G D    G V V L V A P P L R    V G</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>LSM3 protein serves a pivotal role in pre-mRNA splicing as a crucial component of the U4/U6-U5 tri-snRNP complex, which participates in spliceosome assembly and the precatalytic spliceosome (spliceosome B complex). The heptameric LSM2-8 complex, in which LSM3 is a constituent, specifically binds to the 3'-terminal U-tract of U6 snRNA. This intricate machinery, composed of various snRNPs and associated proteins, including LSM3, LSM2, LSM4, LSM5, LSM6, LSM7, and LSM8, forms a ring-shaped subcomplex within the U4/U6-U5 tri-snRNP complex. These interactions emphasize LSM3's essential contribution to the complex orchestration of spliceosome assembly and pre-mRNA processing.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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