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**Product Data Sheet**


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Product Name: LSM4 Human  
 Cat. No.: GP23841  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	U6 snRNA-associated Sm-like protein LSm4; Glycine-rich protein; GRP; LSM4; YER112W.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MLPLSLLKTA QNHPMLVELK NGETYNGHLV SCDNWMNINL REVICTSRDG DKFWRMPECY IRGSTIKYLR IPDEIIDMVK EEVAKGRGR GGLQQQKQQK GRGMGGAGRG VFGGRGRGGI PGTGRGQPEK KPGRQAGKQ.		
Formulation	The LSM4 solution (0.5 mg/ml) 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

**Introduction**

LSM4 (U6 snRNA-associated Sm-like protein) forms donut-shaped heptameric complexes which are involved in various steps of RNA metabolism. LSM4 facilitates RNA protein interactions and structural changes which are essential during ribosomal subunit assembly. LSM4 binds specifically to the 3'-terminal U-tract of U6 snRNA.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

LSM4 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 159 amino acids (1-139 a.a.) and having a molecular mass of 17.5kDa. The LSM4 is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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