

Recombinant human Gem-associated protein 7

Catalog No: #AP71515

Package Size: #AP71515-1 20ug #AP71515-2 100ug #AP71515-3 1mg

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Description

Product Name	Recombinant human Gem-associated protein 7
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-131aaSequence Info:Full Length
Other Names	SIP3
Accession No.	Q9H840
Uniprot	Q9H840
GeneID	79760;
Calculated MW	41.5 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MQTPVNIPVPLRLPRGPDGFSRGFAPDGRRAPLRPEVPEIQECPIAQESLESQEQRARAALRERYLRSLAM VGHQVSFTLHEGVRVAAHFGATDLVDVANFYVSQLQTPIGVQAEALLRCSDIISYTFKP
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus.

References

Identification and characterization of Gemin7, a novel component of the survival of motor neuron complex. Baccon J., Pellizzoni L., Rappsilber J., Mann M., Dreyfuss G.J. Biol. Chem. 277:31957-31962(2002)Research Topic:Transcription

Note: This product is for in vitro research use only