



Human U1 Small Nuclear Ribonucleoprotein particle 68/70 (U1-snRNP68/70)

Origin:	Recombinant	Cat. No.:	41500
Concentration:	2.44mg/mL	Size:	0.1 mg
Source:	<i>Spodopterafrugiperda Sf9</i>	Purity:	>90%
Other names:	SNRNP70	Species:	Human

Description

Expressed in E.coli with total 480 AA. Mw:56.5 kDa(calculated).
N-terminal 6xHis-tag and TEV cleavage site, 44 extra AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

Small nuclear ribonucleoprotein complexes are essential for splicing of precursor mRNA molecules. U1-snRNP is the most abundant RNP particle in the nucleus and consists of one small uridylate-rich RNA (U1 RNA) complexed with several proteins: the three 68/70 kDa, A, C polypeptides are unique to the U1-snRNP particle, whereas 7 so-called Sm proteins (B/B', D1, D2, D3, E, F, G) form a core subparticle that is common to all U-snRNP complexes. Antibodies against the 68/70 kDa protein are known to have a high clinical significance in MCTD patients.

Immunological Function

As an autoantigen, RNP68/70 binds with IgG-type human auto-antibodies.

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Amino Acid Sequence

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSENL^{YFQGA}TQFLPPNLLALF
APRDPIPYLPPLEKLPHEKHNNQPYCGIAPYIREFEDPRDAPPPTRAETREERMERKRREKIERRQ
QEVETELKMWDPHNDPNAQGD^{AFKTLFVARVNYDTTESKLRREFEVYGP}IKRIHMVYSKRSGK
PRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLVDVERGRTVKGWRPRRLGGGLGGTRRGGA
DVNIRHSGRDDT^{SR}YDERPGPSPLPHRDRDRDRERERRERSRERDKERERRRSRSDRRRRS
RSRDKEERRRSRERSKDKDRDRKRRSSRSRERARRERERKEELRGGGGDMAEPSEAGDAPPD
DGPPGELGPDGPDGPEEKGRDRDRERRRSHRSERERRRDRDRDRDRDREHKRGERGSRGR
DEARGGGGGQDNGLEGLGNDSRDMYMESEGGDGYLAPENGYLMEAAPE

Formulation

Liquid at 2.44 mg/mL in 8M Urea buffer with protease inhibitor.





Storage

Store at -80°C . Avoid repeated freezing/thawing cycles.

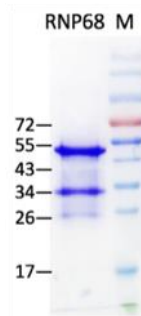
Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

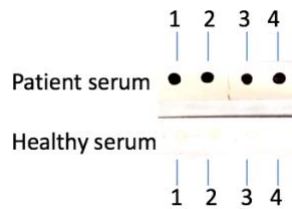
Immunodot analysis to determine functionality of protein.

SDS-PAGE gel



Dot blot assay

Dot blot analysis of RNP68



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation

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