

## RBM14 Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms:	RNA-binding motif protein 14;Paraspeckle protein 2 (PSP2);RNA-binding protein 14; Synaptotagmin-interacting protein (SYT-interacting protein);RRM-containing coactivator activator/modulator;SIP;RBM14
Protein Construction:	1-669 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96PK6
Molecular Weight:	85.5 kDa (predicted)
AA Sequence:	MKIFVGNVDGADTTPEELAALFAPYGTVMSCAVMKQFAFVHMRENAGALRAIEALHGHELPRGRALVVEMS RPRPLNTWKIFVGNVSAACTSQELRSLFERRGRVIECDVVKDYAFVHMEKEADAKAAIAQLNGKEVKGKRINV ELSTKGQKKGPLAVQSGDKTKKPGAGDTAFPGTGGFSATFDYQQAFGNSTGGFDGQARQPTPPFFGRDRS PLRRSPRASVYAPLTAQPATYRAQPSVSLGAAYRAQPSASLGVGYRTQPMTAQAASYRAQPSVSLGAPYR GQLASPSSQSAASSLGPYGAQPSASALSSYGGQAAAASSLNSYGAQGSSLASYNQPSYGAQAASSY GVRAAASSYNTQGAASSLGSYGAQAASYGAQSAASSLAYGAQAASYNQPSASYNQSAQSAAYAAQQAASY SSQPAAYVAQPATAAAYASQPAAYAAQATTPMAGSYGAQPVVQTQLNSYGAQASMGLSGSYGAQSAAAA TGSYGAAAAYGAQPSATLAAPYRTQSSASLAASYAAQHPQAAAASYRGQPGNAYDGAGQPSAAYLSMSQ GAVANANSTPPPYERTRLSPPRASVYDDPYKKAVAMSKRYGSDRRLAELSDYRRLESQSLFRRSPTKSSLDYR RLPDAHSDYARYSGSYNDYLRAAQMHSGYQRRM

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the CoA.*

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Isoform 1 may function as a nuclear receptor coactivator, enhancing transcription through other coactivators such as NCOA6 and CITED1. Isoform 2, functions as a transcriptional repressor, modulating transcriptional activities of coactivators including isoform 1, NCOA6 and CITED1. Regulates centriole biogenesis by suppressing the formation of aberrant centriolar protein complexes in the cytoplasm and thus preserving mitotic spindle integrity. Prevents the formation of the STIL-CENPJ complex (which can induce the formation of aberrant centriolar protein complexes) by interfering with the interaction of STIL with CENPJ. Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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