Recombinant RBPMS protein (His tag)

Catalog Number	543327
Synonyms	RBP-MS; RBPMS; Heart and RRM expressed sequence; Hermes
Species	Human
Expression System	E. coli
Accession	Q93062
Molecular Weight	Predictes a molecular mass of 13.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-105
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-105 aa (Q93062) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human RBPMS Fragment (1-105) is a high-purity protein fragment encompassing the complete RNA recognition motif (RRM) domain of the RNA-binding protein with multiple splicing (RBPMS). This fragment serves as an essential tool for studying RNA-protein interactions, alternative splicing regulation, and domain-specific functions of this critical RNA-binding protein. RBPMS (RNA-binding protein with multiple splicing) is a key regulator of pre-mRNA alternative splicing that functions as both an activator and repressor of specific splicing events. The full-length protein binds to introns, exons, and 3'-UTRs containing tandem CAC trinucleotide motifs and plays a crucial role in promoting differentiated contractile vascular smooth muscle cells by regulating alternative splicing of genes involved in actin cytoskeleton and focal adhesion machineries. RBPMS localizes to both the nucleus and cytoplasm, and under stress conditions translocates to cytoplasmic stress granules and P-bodies. The protein mediates splicing regulation through higher-order oligomerization and interactions with other splicing regulators including RBFOX2 and MBNL1/2, making it a central player in post-transcriptional gene regulation.