Recombinant RBPS2 protein (His tag)

Catalog Number	542966
Synonyms	RNA binding protein, mRNA processing factor 2
Species	Human
Expression System	E. coli
Accession	Q6ZRY4
Molecular Weight	Predictes a molecular mass of 13.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	2-112
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 2-112 aa (Q6ZRY4) 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 RBPMS2 Fragment (2-112) is a high-purity protein designed for studying RNA-binding functions. This fragment encompasses the RRM domain, making it an ideal tool for investigating RNA interactions, alternative splicing regulation, and BMP signaling pathways in smooth muscle cell research. RBPMS2 is an RNA-binding protein that regulates smooth muscle cell differentiation and proliferation in the gastrointestinal system. It binds NOG mRNA, a key inhibitor of the BMP signaling pathway, and functions as a pre-mRNA alternative splicing regulator for genes such as ACTN1 and FLNB. The protein localizes to the cytoplasm, nucleus, and stress granules under oxidative stress, indicating roles in cellular stress response and mRNA processing.