Recombinant RB15B protein (His tag)

Catalog Number	540789
Synonyms	One-twenty two protein 3; HsOTT3; HuOTT3; RNA-binding motif protein 15B
Species	Human
Expression System	E. coli
Accession	Q8NDT2
Molecular Weight	Predictes a molecular mass of 19.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	328-492
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 328-492 aa (Q8NDT2) 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 RBM15B Fragment (328-492) – a high-purity protein fragment encompassing the RRM 2 and RRM 3 domains, designed for targeted studies on RNA-binding, N6-methyladenosine (m6A) methylation regulation, and mRNA processing mechanisms. The full-length Putative RNA-binding protein 15B (RBM15B) is a key RNA-binding protein in Homo sapiens that regulates N6-methyladenosine (m6A) methylation, influencing processes such as alternative mRNA splicing and X chromosome inactivation via Xist RNA. As part of the WMM complex, it recruits m6A methylation machinery to target RNAs, promoting transcriptional repression and mRNA export by interacting with the nuclear export receptor NXF1. It localizes to the nucleus, specifically in the nucleoplasm, speckles, and the nuclear envelope, with a granular staining pattern excluding nucleoli. This fragment, spanning residues 328-492, includes the RRM 2 and RRM 3 domains, making it an ideal tool for investigating domain-specific roles in RNA binding and methylation-related functions.