Recombinant RBM45 protein (His tag)

Catalog Number	545367
Synonyms	Developmentally-regulated RNA-binding protein 1; RB-1; RNA-binding motif protein 45
Species	Human
Expression System	E. coli
Accession	Q8IUH3
Molecular Weight	Predictes a molecular mass of 23.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1-191
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 1-191 aa (Q8IUH3) 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 RBM45 (RNA-binding protein 45) Fragment (aa 1-191) - A high-purity protein fragment specifically designed to encompass the RRM1 domain, providing researchers with an essential tool for studying RNA-binding mechanisms and neural development processes. RNA-binding protein 45 (RBM45), also known as Developmentally-regulated RNA-binding protein 1, is a crucial RNA-binding protein with specific affinity for poly(C) sequences. Research indicates it plays a significant role in neural development, making it an important target for neurodevelopmental studies. The protein exhibits dynamic subcellular localization, predominantly residing in the cytoplasm while also capable of shuttling between the cytoplasm and nucleus, suggesting complex regulatory functions in RNA processing and transport. The provided fragment (amino acids 1-191) contains the complete RRM1 domain, enabling focused investigation of this specific RNA-binding motif's structural and functional properties.