Recombinant ARB2A protein (His tag)

Catalog Number	540860
Synonyms	ARB2 cotranscriptional regulator A; Cotranscriptional regulator FAM172A; Protein FAM172A
Species	Human
Expression System	E. coli
Accession	Q8WUF8
Molecular Weight	Predictes a molecular mass of 45.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	36-416
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 36-416 aa (Q8WUF8) 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 ARB2A (FAM172A) Fragment (aa 36-416) is a high-quality protein product designed for structural and biochemical studies. This 381-amino acid fragment represents a stable and soluble unit of the cotranscriptional regulator ARB2A, optimized for research into its role in alternative splicing regulation and chromatin-spliceosome interactions. ARB2A (Cotranscriptional regulator FAM172A) is a human protein that plays a critical role in regulating alternative splicing through interactions with AGO2 and CHD7. It functions as a stabilizer of protein-protein interactions at the chromatin-spliceosome interface and may possess hydrolase activity. The protein localizes to multiple cellular compartments including the nucleus, cytoplasm, and endoplasmic reticulum, indicating its involvement in diverse cellular processes. The selected fragment (aa 36-416) was computationally designed to provide a stable, soluble representation of the protein's functional regions, enabling detailed mechanistic studies without the complications of full-length protein expression.