Recombinant AP2D protein (His tag)

Catalog Number	543019
Synonyms	AP2-delta; Activating enhancer-binding protein 2-delta; Transcription factor AP-2-beta-like 1
Species	Human
Expression System	E. coli
Accession	Q7Z6R9
Molecular Weight	Predictes a molecular mass of 24.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	205-413
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 205-413 aa (Q7Z6R9) 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 Transcription factor AP-2-delta (AP2-delta) fragment (residues 205-413) is a high-quality protein designed for structural and biochemical studies. This 209-amino acid fragment was computationally optimized for stability and solubility, enabling reliable investigation of AP-2-delta's DNA-binding and transcriptional regulation functions. Transcription factor AP-2-delta is a sequence-specific DNA-binding protein that recognizes the consensus sequence 5'-GCCNNNGGC-3' and regulates transcription by interacting with viral and cellular enhancer elements. It plays crucial roles in developmental processes including eye, face, body wall, limb, and neural tube formation, while also suppressing genes such as MCAM/MUC18, C/EBP alpha, and MYC. As a nuclear protein, AP-2-delta functions in transcriptional activation and repression, making it essential for understanding gene regulation mechanisms in development and disease.