Recombinant ARI4B protein (His tag)

Catalog Number	545106
Synonyms	ARID domain-containing protein 4B; 180 kDa Sin3-associated polypeptide; Sin3-associated polypeptide p180; Breast cancer-associated antigen BRCAA1; Histone deacetylase complex subunit SAP180; Retinoblastoma-binding protein 1-like 1
Species	Human
Expression System	E. coli
Accession	Q4LE39
Molecular Weight	Predictes a molecular mass of 13.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	306-406
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 306-406 aa (Q4LE39) 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	Introducing the recombinant human ARID4B protein fragment (residues 306-406), a high-purity tool designed for investigating the functional mechanisms of the ARID domain. This 101-amino acid fragment offers researchers a precise reagent for studying domain-specific interactions in transcriptional regulation and epigenetic modifications. ARID4B (AT-rich interactive domain-containing protein 4B) functions as a transcriptional repressor and plays a crucial role in the assembly and enzymatic activity of the Sin3A corepressor complex. It participates in regulating epigenetic modifications at imprinting centers and is involved in spermatogenesis as a transcriptional coactivator for the androgen receptor. ARID4B also contributes to myeloid homeostasis by regulating histone methylation states and gene expression in hematopoiesis, with potential leukemia suppressor activity. The protein localizes to both the nucleus and cytoplasm, with cytoplasmic localization observed in breast cancer cells. The provided fragment specifically encompasses the ARID domain (residues 306-398), enabling targeted studies of this critical functional region.