Recombinant AR2BP protein (His tag)

Catalog Number	541600
Synonyms	ARF-like 2-binding protein; ARL2-binding protein; Binder of ARF2 protein 1
Species	Human
Expression System	E. coli
Accession	Q9Y2Y0
Molecular Weight	Predictes a molecular mass of 20.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-163
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-163 aa (Q9Y2Y0) 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 ADP-ribosylation factor-like protein 2-binding protein (ARL2BP) fragment (residues 1-163) is a highly stable and soluble protein unit designed for structural and biochemical studies. This fragment captures essential functional regions, making it ideal for investigating ARL2BP's roles in STAT3 nuclear translocation, transcriptional regulation, and mitochondrial dynamics. ARL2BP, also known as Binder of ARF2 protein 1, functions in conjunction with ARL2 to regulate the nuclear translocation, retention, and transcriptional activity of STAT3, a key signaling molecule involved in cell growth and immune responses. It acts as an effector of ARL2 and is localized to multiple cellular compartments, including the cytoplasm, mitochondrial intermembrane space, centrosome, nucleus, spindle, and cilium basal body. In mitochondria, ARL2BP forms a complex with ARL2 and SLC25A4, highlighting its importance in mitochondrial function. The protein is also associated with microtubule organizing centers and ciliary structures, suggesting roles in cell division and sensory processes, such as in retina photoreceptor cells.