Recombinant ARRD3 protein (His tag)

Catalog Number	547914
Synonyms	TBP-2-like inducible membrane protein; TLIMP
Species	Human
Expression System	E. coli
Accession	Q96B67
Molecular Weight	Predictes a molecular mass of 41.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	1-356
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 1-356 aa (Q96B67) 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 Arrestin domain-containing protein 3 (ARRDC3) fragment (amino acids 1-356) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment represents a stable unit of the protein, facilitating research into its role as an adapter protein in G protein-coupled receptor regulation and endocytosis. Arrestin domain-containing protein 3 (ARRDC3), also known as TBP-2-like inducible membrane protein (TLIMP), is an adapter protein that plays a critical role in regulating the cell-surface expression and internalization of adrenergic receptors and other G protein-coupled receptors. It is involved in NEDD4-mediated ubiquitination, endocytosis, and degradation of activated receptors such as ADRB2, and may function in targeting receptors to endosomes. The protein localizes to the cytoplasm, cell membrane (as a peripheral membrane protein on the cytoplasmic side), lysosomes, endosomes, and early endosomes, where it associates with these compartments during endocytic processes. This recombinant fragment provides a valuable tool for investigating ARRDC3's molecular mechanisms in receptor trafficking and signaling pathways.