Recombinant IQEC2 protein (His tag)

Catalog Number	542825
Species	Human
Expression System	E. coli
Accession	Q5JU85
Molecular Weight	Predictes a molecular mass of 42.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	750-1099
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 750-1099 aa (Q5JU85) 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	This recombinant protein is a 350-amino acid fragment (residues 750-1099) of the human IQ motif and SEC7 domain-containing protein 2 (IQSEC2), designed for structural and biochemical studies. It represents a stable, soluble region of the protein, ideal for investigating the molecular mechanisms of ARF GTPase regulation. The full-length IQSEC2 protein functions as a guanine nucleotide exchange factor (GEF) for ARF GTP-binding proteins, playing a key role in cellular signaling and membrane trafficking by activating ARF proteins through GDP-to-GTP exchange. It is primarily localized in the cytoplasm, where it contributes to essential intracellular processes. This fragment was computationally selected to provide a well-behaved, expressible unit for detailed mechanistic and structural analyses, supporting research into IQSEC2's biological functions.