Recombinant DEN1C protein (His tag)

Catalog Number	547675
Synonyms	Connecdenn 3; Protein FAM31C
Species	Human
Expression System	E. coli
Accession	Q8IV53
Molecular Weight	Predictes a molecular mass of 27.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	175-412
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 175-412 aa (Q8IV53) 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 DENN domain-containing protein 1C (Connecdenn 3) fragment (amino acids 175-412) from Homo sapiens. This high-purity protein includes the complete cDENN and dDENN domains, making it an essential tool for investigating guanine nucleotide exchange factor (GEF) activity and Rab protein regulation in cellular trafficking studies. DENN domain-containing protein 1C (encoded by DENND1C) functions as a guanine nucleotide exchange factor (GEF) that activates RAB8A, RAB13, and RAB35 by promoting GDP to GTP exchange, converting inactive GDP-bound Rab proteins into their active GTP-bound forms. This protein is localized in the cytoplasm, cytosol, and clathrin-coated vesicles, where it plays a critical role in vesicle-mediated transport and intracellular trafficking pathways. The full-length protein's activity in Rab protein activation makes it significant for understanding membrane trafficking dynamics and cellular signaling processes.