Recombinant DE10B protein (His tag)

Catalog Number	550395
Synonyms	DENND10 pseudogene 1; Putative protein FAM45B
Species	Human
Expression System	E. coli
Accession	Q6NSW5
Molecular Weight	Predictes a molecular mass of 42.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	1-357
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 1-357 aa (Q6NSW5) 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 Putative DENN domain-containing protein 10 B (DENND10 pseudogene 1), also known as FAM45B, is a high-purity fragment (residues 1-357) encompassing the complete uDENN, cDENN, and dDENN domains. This product is ideal for investigating guanine nucleotide exchange factor (GEF) activity and domain-specific functions in cellular signaling pathways. The full-length Putative DENN domain-containing protein 10 B is a human protein that may function as a guanine nucleotide exchange factor (GEF), playing a role in regulating small GTPases by facilitating GDP to GTP exchange. It localizes to late endosomes, suggesting involvement in endosomal trafficking and membrane dynamics. The recombinant fragment provided enables focused study of the DENN domains' contributions to these processes, supporting research into intracellular signaling and organelle-specific functions.