Recombinant DEN2B protein (His tag)

Catalog Number	540125
Synonyms	HeLa tumor suppression 1; Suppression of tumorigenicity 5 protein
Species	Human
Expression System	E. coli
Accession	P78524
Molecular Weight	Predictes a molecular mass of 56.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band.

Product Information

Sequence Region	662-1137
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 662-1137 aa (P78524) 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 DENND2B Fragment (662-1137) – a high-purity protein fragment encompassing the critical uDENN, cDENN, and dDENN domains. This product is engineered to support research on cytoskeletal organization, EGFR trafficking, and MAPK signaling pathways, offering a targeted tool for domain-specific functional studies. DENND2B (DENN domain-containing protein 2B), also known as HeLa tumor suppression 1 or Suppression of tumorigenicity 5 protein, is involved in cytoskeletal organization, tumor suppression, and EGFR trafficking from recycling endosomes to the cell membrane. Isoform 1 localizes to the cytoplasm, cell cortex, cell membrane, and recycling endosomes, where it colocalizes with RAB13 and ITSN1, and participates in signaling pathways leading to MAPK1/ERK2 activation. The full-length protein plays roles in cell morphology, growth regulation, and intracellular trafficking, making it significant for cancer and cell biology research.