Recombinant DNMBP protein (His tag)

Catalog Number	545246
Synonyms	Scaffold protein Tuba
Species	Human
Expression System	E. coli
Accession	Q6XZF7
Molecular Weight	Predictes a molecular mass of 24.54 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-206
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 1-206 aa (Q6XZF7) 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 Dynamin-binding protein (DNMBP) fragment (amino acids 1-206) is a high-purity protein that includes the complete SH3 domains 1, 2, and 3. This fragment serves as an essential tool for investigating CDC42-mediated actin cytoskeleton regulation and junctional dynamics in epithelial cells. Dynamin-binding protein (Scaffold protein Tuba), encoded by the DNMBP gene, functions as a guanine nucleotide exchange factor (GEF) for CDC42, playing a critical role in organizing the actin and microtubule cytoskeleton. It regulates apical junction structure through F-actin organization in epithelial cells, contributes to normal lumenogenesis by controlling spindle orientation, and is implicated in ciliogenesis and membrane trafficking between the cell surface and Golgi. The protein localizes to the cytoplasm, Golgi apparatus, cytoskeleton, synapses, and cell junctions, particularly at apical junctions where it colocalizes with TJP1. The 1-206 fragment enables focused study of its SH3 domain-mediated interactions and functions.