Recombinant NIN protein (His tag)

Catalog Number	543132
Synonyms	hNinein; Glycogen synthase kinase 3 beta-interacting protein; GSK3B-interacting protein
Species	Human
Expression System	E. coli
Accession	Q8N4C6
Molecular Weight	Predictes a molecular mass of 32.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	294-559
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 294-559 aa (Q8N4C6) 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 Ninein (hNinein) Fragment (aa 294-559) – a high-purity protein tool designed for studying the EF-hand 5 domain's role in centrosomal function, microtubule anchoring, and cellular organization. Ideal for researchers investigating cytoskeletal dynamics and centrosome maturation. Ninein (GSK3B-interacting protein), encoded by the NIN gene in Homo sapiens, is a centrosomal protein essential for microtubule minus-end positioning and anchorage in epithelial cells. It functions as a centrosome maturation factor and facilitates microtubule nucleation by recruiting the gamma-tubulin ring complex to the centrosome. Additionally, Ninein is critical for centriole organization and microtubule anchoring at the mother centriole, with overexpression shown to suppress microtubule release without affecting nucleation or elongation. Localized to the cytoplasm, cytoskeleton, microtubule organizing center, centrosome, and centriole, it is a core centrosomal component arranged in a tubular conformation and requires PCM1 for centrosome localization. Its presence at the subdistal appendage region of the centriole is DCTN1-dependent, underscoring its role in maintaining centrosomal integrity and microtubule networks.