Recombinant NEDD1 protein (His tag)

Catalog Number	545497
Synonyms	Neural precursor cell expressed developmentally down-regulated protein 1; NEDD-1
Species	Human
Expression System	E. coli
Accession	Q8NHV4
Molecular Weight	Predictes a molecular mass of 34.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-302
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-302 aa (Q8NHV4) 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 NEDD1 (1-302) is a high-purity, soluble protein fragment designed for structural and biochemical studies. This fragment retains key functional characteristics of the full-length NEDD1 protein, which is essential for mitosis progression and microtubule nucleation, making it an ideal tool for investigating cell division mechanisms. NEDD1 (Neural precursor cell expressed developmentally down-regulated protein 1) is a critical regulator of mitosis, required for proper progression through cell division. It functions by promoting microtubule nucleation from the spindle apparatus, facilitating the formation of the mitotic spindle essential for chromosome segregation. The protein localizes to the cytoplasm, cytoskeleton, microtubule organizing center, and centrosome, where it orchestrates microtubule dynamics during cell division. This recombinant fragment (residues 1-302) represents a stable, soluble unit computationally selected to enable detailed mechanistic studies of NEDD1's role in cellular division processes.