Recombinant NECD protein (His tag)

Catalog Number	543453
Species	Human
Expression System	E. coli
Accession	Q99608
Molecular Weight	Predictes a molecular mass of 28.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	91-321
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 91-321 aa (Q99608) 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 Necdin (NDN) Fragment (91-321) – a high-purity protein fragment encompassing the full MAGE domain, engineered for studying cell cycle regulation, transcription factor activity, and neuronal development in life science research. Necdin, encoded by the NDN gene in Homo sapiens, functions as a growth suppressor that facilitates cell cycle arrest by binding to and repressing cell-cycle-promoting proteins such as SV40 large T antigen, adenovirus E1A, and the transcription factor E2F. It also interacts with p53 in an additive manner to inhibit cell growth and acts as a transcription factor by binding to specific guanosine-rich DNA sequences. Subcellularly, Necdin is localized in the perikaryon and nucleus, translocating to the nucleus of postmitotic neurons where it interacts with the nuclear matrix, underscoring its role in neuronal differentiation and growth control.