Recombinant NECA3 protein (His tag)

Catalog Number	543408
Synonyms	Amyloid-beta A4 protein-binding family A member 2-binding protein; Nek2-interacting protein 1; Neuronal calcium-binding protein 3; X11L-binding protein 51
Species	Human
Expression System	E. coli
Accession	Q96P71
Molecular Weight	Predictes a molecular mass of 13.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	293-396
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 293-396 aa (Q96P71) 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 NECAB3 Fragment (293-396) is a high-purity protein product encompassing the critical ABM domain of N-terminal EF-hand calcium-binding protein 3. This fragment serves as a specialized tool for investigating domain-specific interactions, particularly in studies related to amyloid-beta formation and HIF1A-mediated glycolysis regulation. The full-length NECAB3 protein, also known as Neuronal calcium-binding protein 3, is a human protein localized to the Golgi apparatus. It functions by inhibiting the interaction between APBA2 and amyloid-beta precursor protein (APP), thereby facilitating amyloid-beta formation. Additionally, NECAB3 enhances HIF1A activity under normoxic conditions through its ABM domain, potentially stabilizing the HIF1AN-APBA3 interaction to promote glycolysis. These roles highlight its significance in neurodegenerative and metabolic pathways.