Recombinant NECA1 protein (His tag)

Catalog Number	543151
Synonyms	EF-hand calcium-binding protein 1; Neuronal calcium-binding protein 1
Species	Human
Expression System	E. coli
Accession	Q8N987
Molecular Weight	Predictes a molecular mass of 20.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-164
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-164 aa (Q8N987) 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 N-terminal EF-hand calcium-binding protein 1 (NECAB1) fragment (residues 1-164) is a high-purity protein designed to encompass the EF-hand 1 and EF-hand 2 domains. This fragment serves as an essential tool for investigating calcium-binding mechanisms, domain-specific interactions, and related cellular processes in experimental models. N-terminal EF-hand calcium-binding protein 1 (NECAB1) is a neuronal calcium-binding protein localized in the cytoplasm, as indicated by its subcellular location. While a detailed functional summary is not provided, EF-hand domains typically mediate calcium sensing and signaling, suggesting NECAB1's involvement in calcium-dependent regulatory pathways. The recombinant fragment covering residues 1-164 includes two EF-hand domains, enabling focused studies on their structural and functional roles in calcium binding and associated biological activities.