Recombinant NRAP protein (His tag)

Catalog Number	543052
Synonyms	N-RAP
Species	Human
Expression System	E. coli
Accession	Q86VF7
Molecular Weight	Predictes a molecular mass of 15.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	738-861
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 738-861 aa (Q86VF7) 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 Nebulin-related-anchoring protein (N-RAP) fragment (residues 738-861) is a 124-amino acid protein product designed for structural and biochemical studies. This fragment, derived from the NRAP gene, represents a stable and soluble unit ideal for investigating the protein's role in anchoring actin filaments and tension transmission in muscle tissues. Nebulin-related-anchoring protein (N-RAP) is implicated in anchoring terminal actin filaments within myofibrils to the membrane and facilitating tension transmission from myofibrils to the extracellular matrix. It localizes specifically at the myotendinous junction in skeletal muscle and the intercalated disk in cardiac muscle, underscoring its critical role in maintaining structural integrity and force distribution in muscle cells. This recombinant fragment supports research into these mechanisms by providing a functional, soluble protein unit for experimental analysis.