重组人NEXN蛋白

Recombinant NEXN protein (His tag)

目录号 Catalog Number	547231
同用名 Synonyms	F-actin-binding protein; Nelin
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q0ZGT2
分子量 Molecular Weight	Predictes a molecular mass of 52.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 70 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKHHHHH HGGSFEELER QRQENRKKQA EEEARKRLEE EKRAFEEARR QMVNEDEENQ DTAKIFKGYR PGKLKLSFEE MERQRREDEK RKAEEEARRR IEEEKKAFAE ARRNMVVDDD SPEMYKTISQ EFLTPGKLEI NFEELLKQKM EEEKRRTEEE RKHKLEMEKQ EFEQLRQEMG EEEEENETFG LSREYEELIK LKRSGSIQAK NLKSKFEKIG QLSEKEIQKK IEEERARRRA IDLEIKEREA ENFHEEDDVD VRPARKSEAP FTHKVNMKAR FEQMAKAREE EEQRRIEEQK LLRMQFEQRE IDAALQKKRE EEEEEEGSIM NGSTAEDEEQ TRSGAPWFKK PLKNTSVVDS EPVRFTVKVT GEPKPEITWW FEGEILQDGE DYQYIERGET YCLYLPETFP EDGGEYMCKA VNNKGSAAST CILTIESKN
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 251-675 aa (Q0ZGT2) were fused with N-terminal 6His tag.

保存与运输

复溶 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.
储存 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.
运输 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.

功能描述

研究背景 Background	Recombinant Human Nexilin (NEXN) Fragment (aa 251-675) is a high-purity protein designed for studying the Ig-like domain's role in actin cytoskeleton regulation and sarcomere integrity. This fragment offers a focused tool for investigating cell migration and structural maintenance mechanisms. Nexilin, encoded by the NEXN gene, is an F-actin-binding protein critical for regulating cell migration through its association with the actin cytoskeleton. It plays an essential role in maintaining Z line and sarcomere integrity, contributing to cellular structure and motility. The protein localizes to the cytoplasm, cytoskeleton, adherens junctions, and specifically to the Z line of sarcomeres, with presence at cell-matrix adherens junctions but not at cell-cell junctions. This recombinant fragment spans residues 251-675, encompassing the functional Ig-like domain (aa 582-670), enabling targeted studies of domain-specific functions in cytoskeletal dynamics and cellular organization.