Recombinant SPTN4 protein (His tag)

Catalog Number	541237
Synonyms	Beta-IV spectrin; Spectrin, non-erythroid beta chain 3
Species	Human
Expression System	E. coli
Accession	Q9H254
Molecular Weight	Predictes a molecular mass of 14.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	2419-2530
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 2419-2530 aa (Q9H254) 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	Introducing the recombinant human Spectrin beta chain, non-erythrocytic 4 (Beta-IV spectrin) fragment (residues 2419-2530), a 112-amino acid protein designed for structural and biochemical studies. This fragment was computationally optimized for stability and solubility, offering researchers a reliable tool to explore the molecular architecture and interactions of this key cytoskeletal component. The full-length Spectrin beta chain, non-erythrocytic 4 (encoded by the SPTBN4 gene) is a cytoskeletal protein localized to the cytoplasm, cytoskeleton, and cell cortex. As part of the spectrin family, it contributes to maintaining cell shape, membrane integrity, and intracellular organization by forming a scaffold with other proteins. Its presence in the cell cortex underscores its role in linking the plasma membrane to the actin cytoskeleton, which is critical for cellular stability, signaling, and mechanical resilience in non-erythroid tissues.