Recombinant SNTB2 protein (His tag)

Catalog Number	540260
Synonyms	59 kDa dystrophin-associated protein A1 basic component 2; Syntrophin-3; SNT3; Syntrophin-like; SNTL
Species	Human
Expression System	E. coli
Accession	Q13425
Molecular Weight	Predictes a molecular mass of 49.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	112-540
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 112-540 aa (Q13425) 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 Beta-2-syntrophin (SNTB2) fragment (residues 112-540), a high-purity protein designed to encompass key functional domains including PDZ, PH1, PH2, and SU. This product is an essential tool for researchers studying membrane protein organization, cytoskeletal interactions, and secretory granule regulation, offering targeted insights into syntrophin-mediated cellular processes. Beta-2-syntrophin (SNTB2) is an adapter protein that plays a critical role in organizing the subcellular localization of various membrane proteins and linking receptors to the actin cytoskeleton and dystrophin glycoprotein complex. It is implicated in the regulation of secretory granules through its interaction with PTPRN. The protein is membrane-associated and localized to cytoplasmic vesicles, secretory vesicle membranes, cell junctions, and the cytoskeleton. In muscle tissue, it is specifically found at the neuromuscular junction, while in insulinoma cells, it enriches in secretory granules, highlighting its importance in specialized cellular compartments and signaling pathways.