Recombinant ITSN2 protein (His tag)

Catalog Number	543780
Synonyms	SH3 domain-containing protein 1B; SH3P18; SH3P18-like WASP-associated protein
Species	Human
Expression System	E. coli
Accession	Q9NZM3
Molecular Weight	Predictes a molecular mass of 13.29 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-104
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 1-104 aa (Q9NZM3) 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 Intersectin-2 (ITSN2) EF-hand 1 domain fragment (amino acids 1-104), a high-purity protein designed to facilitate targeted research into calcium-binding mechanisms and cytoskeletal regulation. This fragment provides an essential tool for studying domain-specific interactions in endocytosis and actin assembly pathways. Intersectin-2 (ITSN2) is a crucial adapter protein in human cells that links endocytic membrane trafficking with actin cytoskeleton assembly. It functions in regulating clathrin-coated vesicle formation and maturation, participating in the endocytosis of key receptors including integrin beta-1 and transferrin receptor. The protein also contributes to cellular morphology processes, particularly in dendrite formation by melanocytes. Located primarily in the cytoplasm, ITSN2 serves as a molecular bridge between membrane trafficking machinery and actin dynamics. The EF-hand 1 domain contained within this recombinant fragment represents a critical functional element for calcium sensing and protein-protein interactions in these cellular processes.