Recombinant SYNJ2 protein (His tag)

Catalog Number	544068
Synonyms	Synaptic inositol 1,4,5-trisphosphate 5-phosphatase 2
Species	Human
Expression System	E. coli
Accession	O15056
Molecular Weight	Predictes a molecular mass of 58.26 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 60 kDa band.

Product Information

Sequence Region	477-976
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 477-976 aa (O15056) 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	This product offers a recombinant fragment of Synaptojanin-2 (EC 3.1.3.36), a key human inositol 5-phosphatase involved in membrane trafficking and signal transduction. The fragment spans residues 477-976 and is specifically designed to include the complete RRM domain (residues 889-968), making it an ideal tool for targeted functional studies of this domain. Synaptojanin-2, encoded by the SYNJ2 gene, functions as an inositol 5-phosphatase implicated in distinct membrane trafficking and signal transduction pathways. It may mediate the inhibitory effect of Rac1 on endocytosis. The protein localizes to the cytoplasm, cell membrane, membrane rafts, presynapse terminals, and the cytoskeleton, and it translocates from the cytoplasm to membrane ruffles in a RAC1-dependent manner, highlighting its dynamic role in cellular processes.