Recombinant GRASP protein (His tag)

Catalog Number	549004
Synonyms	General receptor for phosphoinositides 1-associated scaffold protein; GRP1-associated scaffold protein
Species	Human
Expression System	E. coli
Accession	Q7Z6J2
Molecular Weight	Predictes a molecular mass of 16.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	99-226
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 99-226 aa (Q7Z6J2) 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	Recombinant Human TAMALIN Protein Fragment (aa 99-226) - A high-purity protein fragment specifically designed to encompass the complete PDZ domain (aa 101-190) of TAMALIN, providing researchers with an ideal tool for studying domain-specific functions in intracellular trafficking and synaptic organization. TAMALIN (General receptor for phosphoinositides 1-associated scaffold protein) plays a crucial role in intracellular trafficking and contributes to the macromolecular organization of group 1 metabotropic glutamate receptors (mGluRs) at synapses. This scaffold protein is primarily localized in the cytoplasm, particularly in the perinuclear region, and associates with cell membranes as a peripheral membrane protein on the cytoplasmic side. It is specifically found in postsynaptic cell membranes, where it facilitates the proper organization and function of synaptic receptors. The full-length protein's function in synaptic organization makes it an important target for neuroscience and cell signaling research.