Recombinant STON2 protein (His tag)

Catalog Number	540884
Synonyms	Stoned B
Species	Human
Expression System	E. coli
Accession	Q8WXE9
Molecular Weight	Predictes a molecular mass of 38.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	426-744
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 426-744 aa (Q8WXE9) 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 Stonin-2 (Stoned B) Fragment (aa 426-744) is a high-purity protein designed for studying endocytic machinery and synaptic vesicle recycling. This fragment specifically encompasses the SHD domain, making it an ideal tool for investigating domain-specific functions in clathrin-coated vesicle uncoating and adaptor protein interactions. Stonin-2 (STON2) is an adapter protein crucial for endocytic processes and synaptic vesicle recycling in human cells. According to functional studies, it facilitates clathrin-coated vesicle uncoating and operates within the endocytic machinery. The protein localizes to the cytoplasm, membrane, and synaptic regions (specifically synaptosomes), with a portion being membrane-associated. This recombinant fragment (426-744) containing the SHD domain (427-560) enables focused research on these specific functional aspects without interference from other protein regions.