Recombinant SCRIB protein (His tag)

Catalog Number	531153
Synonyms	Protein scribble; Protein smell-impaired
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q7KRY7
Gene ID	44448
Molecular Weight	Predictes a molecular mass of 22.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1238-1430
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1238-1430 aa (Q7KRY7) 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 Protein lap4 (Scribble) Fragment (residues 1238-1430) from Drosophila melanogaster, encompassing the complete PDZ 3 and PDZ 4 domains. This high-purity fragment serves as an essential tool for investigating domain-specific functions in epithelial polarization, cellular growth regulation, and odor-guided behavior. The full-length Protein lap4 (Scribble) is crucial for epithelial polarization in embryonic, imaginal disk, and follicular tissues, where it restricts apical membrane determinants to apical surfaces and defines adherens junction positioning by excluding proteins like crb from basolateral domains. As a tumor suppressor, it regulates cellular growth and differentiation, and is essential for odor-guided behavior. Localized to the cytoplasm and apicolateral cell membrane, it functions as a peripheral membrane protein at septate junctions, maintaining the boundary between apical and basolateral cell surfaces. The provided fragment enables focused study on the roles of PDZ domains 3 and 4 in these processes.