Recombinant SCRIB protein (His tag)

Catalog Number	544964
Synonyms	Scribble; hScrib; Protein LAP4
Species	Human
Expression System	E. coli
Accession	Q14160
Molecular Weight	Predictes a molecular mass of 22.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	999-1193
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 999-1193 aa (Q14160) 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 Protein Scribble Homolog (SCRIB) Fragment (aa 999-1193) is a high-purity protein designed for studying the PDZ 3 domain's role in cell polarity, adhesion, and signaling pathways. This fragment serves as an essential tool for researchers investigating epithelial morphogenesis, neuronal development, and immune cell polarization. Protein Scribble homolog (SCRIB) is a scaffold protein critical for establishing apico-basal cell polarity, regulating epithelial and neuronal morphogenesis, and T-cell polarization. It functions in directional cell movement, Golgi complex polarization, and maintenance of cell-cell adhesion, while also influencing cell proliferation, apoptosis, and MAPK-mediated migration. Localized to the cell membrane, adherens junctions, lamellipodia, and pre-/postsynapses, SCRIB activates Rac GTPase and supports synaptic vesicle targeting. The provided fragment (aa 999-1193) encompasses the PDZ 3 domain, enabling focused studies on its contributions to these processes without interference from other protein regions.