Recombinant PSD2 protein (His tag)

Catalog Number	549898
Synonyms	Exchange factor for ADP-ribosylation factor guanine nucleotide factor 6 C; Exchange factor for ARF6 C; Pleckstrin homology and SEC7 domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q9BQI7
Molecular Weight	Predictes a molecular mass of 19.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	309-468
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 309-468 aa (Q9BQI7) 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 PSD2 Protein Fragment (residues 309-468) is a high-quality, stable, and soluble protein fragment derived from the PH and SEC7 domain-containing protein 2. This fragment is ideal for structural biology and biochemical studies, offering researchers a reliable tool to investigate the molecular mechanisms of ADP-ribosylation factor signaling pathways. The full-length PH and SEC7 domain-containing protein 2 (PSD2), encoded by the gene PSD2 in Homo sapiens, functions as an exchange factor for ADP-ribosylation factor 6 (ARF6), playing a critical role in regulating intracellular trafficking and cytoskeletal dynamics. It is localized to the cell membrane, particularly in membrane ruffling regions, and transiently associates with the cleavage furrow during cytokinesis, highlighting its importance in cell division and membrane remodeling processes. This recombinant fragment (residues 309-468) was selected for its stability and solubility, enabling focused studies on protein function without domain-specific constraints.