Recombinant PHLB2 protein (His tag)

Catalog Number	540623
Synonyms	Protein LL5-beta
Species	Human
Expression System	E. coli
Accession	Q86SQ0
Molecular Weight	Predictes a molecular mass of 28.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	1032-1253
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1032-1253 aa (Q86SQ0) 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 PHLDB2 (Protein LL5-beta) Fragment (aa 1032-1253) - A high-purity protein fragment containing the complete Pleckstrin Homology (PH) domain, ideal for studying membrane association and postsynaptic apparatus assembly mechanisms in neurological research. The full-length Pleckstrin homology-like domain family B member 2 (PHLDB2), also known as Protein LL5-beta, plays a crucial role in the assembly of the postsynaptic apparatus and is involved in acetylcholine receptor (AChR) aggregation at the postsynaptic membrane. This protein exhibits dynamic subcellular localization, primarily found in the cytoplasm and at the cell cortex, with peripheral membrane association. Its translocation to the plasma membrane is regulated by PtdIns(3,4,5)P3 levels, while at lower levels it moves to vesicular compartments. PHLDB2 also localizes to podosome structures in myotubes, indicating its involvement in specialized membrane domains and cellular projections, making it significant for understanding synaptic organization and membrane dynamics.