Recombinant CLIP3 protein (His tag)

Catalog Number	540970
Synonyms	Cytoplasmic linker protein 170-related 59 kDa protein; CLIP-170-related 59 kDa protein; CLIPR-59
Species	Human
Expression System	E. coli
Accession	Q96DZ5
Molecular Weight	Predictes a molecular mass of 37.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	37-363
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 37-363 aa (Q96DZ5) 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 CLIP3 Protein Fragment (aa 37-363) is a high-purity, functional fragment encompassing the CAP-Gly 1 domain of the CAP-Gly domain-containing linker protein 3. This product is engineered to support research into intracellular transport, TGN-endosome dynamics, and AKT kinase regulation, providing a targeted tool for domain-specific functional studies. The full-length CAP-Gly domain-containing linker protein 3 (CLIP3), encoded by the gene CLIP3 in Homo sapiens, functions as a cytoplasmic linker protein involved in trans-Golgi network (TGN)-endosome dynamics. It modulates the cellular compartmentalization of AKT kinase family members, promoting their localization to the cell membrane, which plays a role in glucose transport in adipocytes. Subcellularly, CLIP3 is found at the cell membrane (lipid-anchored), in the cytoplasm, and in the Golgi apparatus, particularly Golgi stacks and associated tubulovesicular structures, highlighting its importance in intracellular trafficking and signaling pathways.