Recombinant ACAP3 protein (His tag)

Catalog Number	548825
Synonyms	Centaurin-beta-5; Cnt-b5
Species	Human
Expression System	E. coli
Accession	Q96P50
Molecular Weight	Predictes a molecular mass of 44.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	1-367
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-367 aa (Q96P50) 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 ACAP3 (Centaurin-beta-5) Fragment (residues 1-367) is a high-purity protein designed for studying the PH domain function. This fragment serves as an essential tool for investigating GTPase-activating activity in ADP ribosylation factor signaling pathways. ACAP3, encoded by the ACAP3 gene, functions as a GTPase-activating protein (GAP) for the ADP ribosylation factor (Arf) family, playing a critical role in regulating intracellular trafficking and signal transduction. The full-length protein contains multiple domains, including a PH domain, which is fully encompassed in this recombinant fragment (residues 268-363), enabling focused research on lipid binding and membrane-associated functions of ACAP3.