Recombinant ADAP1 protein (His tag)

Catalog Number	541868
Synonyms	Centaurin-alpha-1; Cnt-a1; Putative MAPK-activating protein PM25
Species	Human
Expression System	E. coli
Accession	O75689
Molecular Weight	Predictes a molecular mass of 45.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	1-374
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 1-374 aa (O75689) 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 ADAP1 (Centaurin-alpha-1) Fragment (aa 1-374) – a high-purity protein encompassing the complete Arf-GAP and dual PH domains, ideal for investigating GTPase regulation, phosphoinositide binding, and intracellular trafficking mechanisms in experimental settings. ADAP1 (Arf-GAP with dual PH domain-containing protein 1), also known as Centaurin-alpha-1, functions as a GTPase-activating protein for ADP ribosylation factors and binds key signaling lipids such as phosphatidylinositol 3,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate. It plays a role in regulating the incorporation of proteins like CD63 and CD9 into multivesicular bodies, influencing vesicular transport processes. The protein localizes to both the nucleus and cytoplasm and is recruited to the plasma membrane upon epidermal growth factor-induced activation of phosphoinositide 3-kinase signaling, highlighting its involvement in dynamic cellular responses.