Recombinant EEA1 protein (His tag)

Catalog Number	545010
Synonyms	Endosome-associated protein p162; Zinc finger FYVE domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q15075
Molecular Weight	Predictes a molecular mass of 46.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	1023-1411
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 1023-1411 aa (Q15075) 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 Early Endosome Antigen 1 (EEA1) Fragment (residues 1023-1411) is a 389-amino acid human protein fragment designed for structural and biochemical studies. This fragment, derived from the endosome-associated protein p162, is computationally optimized for stability and solubility, enabling reliable investigation of endosomal trafficking mechanisms. Early Endosome Antigen 1 (EEA1) is a cytoplasmic protein that localizes to early endosome membranes as a peripheral membrane protein. Its primary function involves binding to phospholipid vesicles containing phosphatidylinositol 3-phosphate, playing a critical role in endosomal trafficking pathways. The full-length protein facilitates membrane dynamics and cargo sorting through its FYVE domain, contributing to essential cellular processes including receptor internalization and endosome maturation.