Recombinant FARP2 protein (His tag)

Catalog Number	546583
Synonyms	FERM domain-including RhoGEF; FIR; FERM, RhoGEF and pleckstrin domain-containing protein 2; Pleckstrin homology domain-containing family C member 3; PH domain-containing family C member 3
Species	Human
Expression System	E. coli
Accession	O94887
Molecular Weight	Predictes a molecular mass of 39.26 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	534-856
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 534-856 aa (O94887) 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 FARP2 Fragment (534-856) is a high-purity protein designed for studying the specific functions of the DH and PH1 domains. This fragment, derived from the human FERM, ARHGEF and pleckstrin domain-containing protein 2, serves as an essential tool for investigating RAC1 activation and cytoskeletal dynamics in cellular research. The full-length FARP2 protein functions as a guanine nucleotide exchange factor that activates RAC1, playing a critical role in the response to class 3 semaphorins and remodeling of the actin cytoskeleton. It is involved in TNFSF11-mediated osteoclast differentiation, particularly in podosome rearrangement and reorganization of the actin cytoskeleton, and regulates the activation of ITGB3, integrin signaling, and cell adhesion. The provided fragment encompasses the DH and PH1 domains, which are central to these functions, making it valuable for domain-specific studies in signal transduction and cellular morphology.