Recombinant PARVB protein (His tag)

Catalog Number	545987
Synonyms	Affixin
Species	Human
Expression System	E. coli
Accession	Q9HBI1
Molecular Weight	Predictes a molecular mass of 35.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	68-364
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 68-364 aa (Q9HBI1) 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 Beta-parvin (Affixin) Fragment (aa 68-364): A high-purity protein fragment encompassing the Calponin-homology (CH) 1 and CH 2 domains, designed for studying integrin signaling, actin cytoskeleton reorganization, and cell migration mechanisms. Beta-parvin (Affixin), encoded by the PARVB gene in Homo sapiens, functions as an adapter protein in integrin signaling pathways through ILK and activates GTPases CDC42 and RAC1 via guanine exchange factors like ARHGEF6. It plays critical roles in reorganizing the actin cytoskeleton, forming lamellipodia, and facilitating cell adhesion, spreading, polarity establishment, and migration. The protein localizes to focal adhesions, the cell membrane (cytoplasmic side), cytoskeleton, lamellipodia projections, and sarcomere Z lines in myofibrils, underscoring its importance in cellular structure and motility.