Recombinant PLEK2 protein (His tag)

Catalog Number	551033
Species	Human
Expression System	E. coli
Accession	Q9NYT0
Molecular Weight	Predictes a molecular mass of 41.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	1-353
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 1-353 aa (Q9NYT0) 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 Pleckstrin-2 (PLEK2) fragment (aa 1-353) is a high-purity protein designed for cytoskeletal and cell motility research. This fragment includes the complete PH 1, DEP, and PH 2 domains, making it an ideal tool for studying lamellipodia formation and cytoskeletal dynamics in vitro. Pleckstrin-2, encoded by the PLEK2 gene in humans, plays a key role in orchestrating cytoskeletal arrangement and contributes to lamellipodia formation, which are essential for cell movement and signaling. The protein localizes to the cell projection, specifically the lamellipodium membrane, as a peripheral membrane protein, and is also found in the cytoplasm associated with the cytoskeleton. This strategic localization underscores its importance in regulating membrane protrusions and actin dynamics during cellular processes such as migration and adhesion.