Recombinant CASS4 protein (His tag)

Catalog Number	546028
Synonyms	HEF-like protein; HEF1-EFS-p130Cas-like protein; HEPL
Species	Human
Expression System	E. coli
Accession	Q9NQ75
Molecular Weight	Predictes a molecular mass of 19.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	436-588
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 436-588 aa (Q9NQ75) 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 CASS4 Protein Fragment (aa 436-588) is a high-purity, soluble protein fragment derived from the Cas scaffolding protein family member 4 (HEPL), designed for structural and biochemical studies. This fragment, computationally selected for stability and solubility, supports research into tyrosine kinase-based signaling pathways involved in cell adhesion and spreading. The full-length CASS4 protein functions as a docking protein that plays a critical role in tyrosine kinase-based signaling, particularly in processes related to cell adhesion and cell spreading. It regulates PTK2/FAK1 activity, focal adhesion integrity, and cell spreading, as supported by experimental evidence. CASS4 is localized in the cytoplasm, specifically associated with the cytoskeleton, and at cell junctions in focal adhesions, highlighting its importance in cellular adhesion mechanisms and signaling networks.