Recombinant RTKN protein (His tag)

Catalog Number	545815
Species	Human
Expression System	E. coli
Accession	Q9BST9
Molecular Weight	Predictes a molecular mass of 21.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	252-432
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 252-432 aa (Q9BST9) 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	Introducing the Recombinant Human Rhotekin (RTKN) Fragment (252-432), a meticulously engineered protein that fully encompasses the Pleckstrin Homology (PH) domain. This high-purity fragment serves as an ideal tool for researchers investigating Rho signaling pathways, NF-kappa-B activation, and cellular mechanisms in gastric tumorigenesis, offering targeted insights into domain-specific functions. Rhotekin, encoded by the RTKN gene in Homo sapiens, is a key mediator in Rho signaling pathways. It activates NF-kappa-B and has been implicated in conferring increased resistance to apoptosis, particularly in the context of gastric tumorigenesis. Additionally, Rhotekin may play a role in the organization of septin structures, as supported by multiple PubMed references (10940294, 15480428, 16007136). While subcellular localization data is not provided, its functions highlight its significance in cellular signaling and disease mechanisms, making it a valuable subject for life science research.