Recombinant FA83B protein (His tag)

Catalog Number	542835
Species	Human
Expression System	E. coli
Accession	Q5T0W9
Molecular Weight	Predictes a molecular mass of 22.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	105-287
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 105-287 aa (Q5T0W9) 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 Protein FAM83B (105-287) is a high-quality fragment derived from the human FAM83B gene, designed for structural and biochemical studies. This 183-amino acid fragment represents a stable and soluble unit of the protein, ideal for investigating its role in EGFR signaling pathways and oncogenic processes. Protein FAM83B is a probable proto-oncogene that plays a critical role in the epidermal growth factor receptor (EGFR) signaling pathway. It activates EGFR and downstream signaling cascades, including RAS/MAPK and PI3K/AKT/TOR, contributing to cellular processes linked to oncogenesis. The protein is localized in both the cytoplasm and membrane, as supported by experimental evidence. This fragment (residues 105-287) was computationally selected to ensure stability and solubility, enabling researchers to explore its functional domains and mechanisms in a controlled experimental setting.