Recombinant PEBP4 protein (His tag)

Catalog Number	549345
Synonyms	PEBP-4; hPEBP4; Protein cousin-of-RKIP 1
Species	Human
Expression System	E. coli
Accession	Q96S96
Molecular Weight	Predictes a molecular mass of 25.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	23-227
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 23-227 aa (Q96S96) 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 Phosphatidylethanolamine-binding protein 4 (PEBP-4), also known as Protein cousin-of-RKIP 1, is a high-purity fragment (residues 23-227) designed for structural and functional studies. This 205-amino acid fragment represents a stable, soluble domain ideal for investigating its role in cellular signaling pathways. PEBP-4, encoded by the PEBP4 gene, is a secreted human protein that promotes AKT phosphorylation, indicating a potential role in the PI3K-AKT signaling pathway—a critical regulator of cell survival, proliferation, and metabolism. As a secreted protein, it may function in extracellular signaling or intercellular communication. The provided fragment encompasses the core functional domain, enabling researchers to explore its biochemical properties and mechanistic contributions to signaling processes without interference from non-essential regions.