Recombinant GARE2 protein (His tag)

Catalog Number	548748
Synonyms	GRB2-associated and regulator of MAPK1-like
Species	Human
Expression System	E. coli
Accession	Q75VX8
Molecular Weight	Predictes a molecular mass of 10.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	800-874
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 800-874 aa (Q75VX8) 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 GRB2-associated and regulator of MAPK protein 2 (GAREM2) fragment (residues 800-874), a meticulously designed 75-amino acid protein that fully encompasses the SAM domain. This fragment serves as an essential tool for researchers investigating domain-specific functions in MAPK/ERK signaling pathways, enabling targeted studies on protein interactions and regulatory mechanisms. GRB2-associated and regulator of MAPK protein 2 (GAREM2) functions as a probable adapter protein, providing a critical link between cell surface epidermal growth factor receptor and the MAPK/ERK signaling pathway. This role positions GAREM2 as a significant component in cellular signal transduction, potentially influencing processes such as cell proliferation, differentiation, and survival. The SAM domain contained within this fragment is known to mediate protein-protein interactions, suggesting its importance in the assembly of signaling complexes.