Recombinant SH2D7 protein (His tag)

Catalog Number	551324
Species	Human
Expression System	E. coli
Accession	A6NKC9
Molecular Weight	Predictes a molecular mass of 19.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	1-158
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 1-158 aa (A6NKC9) 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	This high-purity recombinant protein product features the SH2 domain-containing protein 7 (SH2D7, Homo sapiens), specifically the fragment encompassing amino acids 1-158. This fragment is expertly designed to contain the complete SH2 functional domain (residues 51-142), providing researchers with an ideal, isolated tool for investigating domain-specific protein-protein interactions and signaling mechanisms. SH2D7 is a human protein encoded by the SH2D7 gene (UniProt ID: A6NKC9). While a detailed functional summary and subcellular localization for the full-length protein are not fully characterized in the provided data, proteins containing Src Homology 2 (SH2) domains are critically involved in cellular signal transduction. SH2 domains typically function by binding to phosphorylated tyrosine residues on other proteins, thereby mediating key interactions in pathways that regulate cell growth, differentiation, and communication. This recombinant fragment allows for focused study of this essential binding module within the context of SH2D7.