Recombinant SHE protein (His tag)

Catalog Number	551702
Species	Human
Expression System	E. coli
Accession	Q5VZ18
Molecular Weight	Predictes a molecular mass of 14.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	383-495
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 383-495 aa (Q5VZ18) 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 recombinant protein product features a defined fragment (residues 383-495) of the human SH2 domain-containing adapter protein E (SHE). The fragment is engineered to contain the complete SH2 functional domain (residues 395-490), providing researchers with a precise tool for investigating domain-specific protein interactions and signaling mechanisms. SH2 domain-containing adapter protein E (SHE), encoded by the gene SHE in Homo sapiens, is a signaling adapter protein. Adapter proteins like SHE typically function as molecular scaffolds, facilitating the assembly of multi-protein complexes by mediating specific protein-protein interactions through their modular domains, such as SH2 domains which recognize phosphotyrosine motifs. This enables the precise relay and regulation of intracellular signals, often within critical pathways controlling cell growth, differentiation, and communication. The provided fragment isolates the core SH2 domain, allowing focused study of its binding specificity and role in these complex signaling networks.