Recombinant CHSP1 protein (His tag)

Catalog Number	541597
Synonyms	Calcium-regulated heat-stable protein of 24 kDa; CRHSP-24
Species	Human
Expression System	E. coli
Accession	Q9Y2V2
Molecular Weight	Predictes a molecular mass of 17.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	2-147
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 2-147 aa (Q9Y2V2) 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 CARHSP1 (CRHSP-24) Fragment (aa 2-147) is a high-purity protein designed to encompass the complete Cold Shock Domain (CSD), enabling targeted investigation into mRNA binding and stability regulation. This fragment serves as an essential tool for studying domain-specific functions in gene expression control. Calcium-regulated heat-stable protein 1 (CARHSP1/CRHSP-24) is a human protein that binds mRNA and regulates the stability of target mRNAs. It also demonstrates single-stranded DNA binding capability in vitro. The protein localizes primarily to the cytoplasm, specifically to P-bodies and cytoplasmic granules, including stress granules and exosome granules where mRNA degradation occurs. These locations highlight its crucial role in post-transcriptional regulation and mRNA metabolism pathways.