Recombinant CHERP protein (His tag)

Catalog Number	547690
Synonyms	ERPROT 213-21; SR-related CTD-associated factor 6
Species	Human
Expression System	E. coli
Accession	Q8IWX8
Molecular Weight	Predictes a molecular mass of 28.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	104-338
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 104-338 aa (Q8IWX8) 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 fragment (amino acids 104-338) of the human Calcium homeostasis endoplasmic reticulum protein (CHERP), also known as SR-related CTD-associated factor 6. It is designed to include the CID functional domain (residues 149-289), making it an ideal tool for researchers studying calcium regulation, cellular growth, and proliferation mechanisms. The full-length CHERP protein, encoded by the CHERP gene in Homo sapiens, plays a critical role in calcium homeostasis, growth, and proliferation. It is localized in the cytoplasm, perinuclear region, and endoplasmic reticulum, where it interacts with ITPR1 and is distributed throughout these compartments in human erythroleukemia and Jurkat cells. This protein's involvement in calcium signaling and cellular processes underscores its importance in physiological and pathological contexts, supporting its use in investigations of intracellular calcium dynamics and related pathways.