Recombinant CRERF protein (His tag)

Catalog Number	547671
Synonyms	Luman recruitment factor; LRF
Species	Human
Expression System	E. coli
Accession	Q8IUR6
Molecular Weight	Predictes a molecular mass of 18.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	486-639
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 486-639 aa (Q8IUR6) 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 CREBRF (Luman Recruitment Factor) bZIP Domain Fragment (aa 486-639) – a high-purity protein fragment designed for studying the specific functions of the bZIP domain in regulating endoplasmic reticulum stress and unfolded protein response pathways. CREB3 Regulatory Factor (CREBRF), also known as Luman Recruitment Factor (LRF), acts as a negative regulator of the endoplasmic reticulum stress response or unfolded protein response (UPR). It represses the transcriptional activity of CREB3 during the UPR and recruits CREB3 into nuclear foci. The protein is localized in the nucleus, where it colocalizes with CREB3 in these foci, highlighting its role in modulating cellular stress signaling pathways.