Recombinant EMC2 protein (His tag)

Catalog Number	547322
Synonyms	Tetratricopeptide repeat protein 35; TPR repeat protein 35
Species	Human
Expression System	E. coli
Accession	Q15006
Molecular Weight	Predictes a molecular mass of 36.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	2-297
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 2-297 aa (Q15006) 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 ER Membrane Protein Complex Subunit 2 (EMC2) Fragment (aa 2-297) is a high-purity protein designed for structural and functional studies. This fragment includes the TPR repeat domain and is engineered for stability and solubility, enabling researchers to investigate the role of EMC2 in membrane protein insertion and endoplasmic reticulum biology. ER membrane protein complex subunit 2 (EMC2), also known as TPR repeat protein 35, is a key component of the endoplasmic reticulum membrane protein complex (EMC). This complex facilitates the energy-independent insertion of newly synthesized membrane proteins into the endoplasmic reticulum membrane, particularly those with weakly hydrophobic or destabilizing transmembrane domains. EMC2 is involved in both cotranslational insertion of multi-pass membrane proteins, such as G protein-coupled receptors, and post-translational insertion of tail-anchored proteins. By controlling the proper topology and membrane integration of various proteins, EMC2 indirectly influences numerous cellular processes. The protein localizes to the endoplasmic reticulum membrane as a peripheral membrane protein on the cytoplasmic side and may also be present at the nuclear envelope.