Recombinant CC50B protein (His tag)

Catalog Number	540412
Synonyms	P4-ATPase flippase complex beta subunit TMEM30B; Transmembrane protein 30B
Species	Human
Expression System	E. coli
Accession	Q3MIR4
Molecular Weight	Predictes a molecular mass of 30.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	55-315
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 55-315 aa (Q3MIR4) 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 TMEM30B (Cell cycle control protein 50B) Fragment (aa 55-315) is a stable and soluble protein unit designed for structural and biochemical studies. This fragment represents a key accessory component of P4-ATPase flippase complexes, enabling research into phospholipid transport and membrane asymmetry mechanisms. The full-length TMEM30B protein serves as an essential accessory component of P4-ATPase flippase complexes, which catalyze ATP-dependent transport of aminophospholipids from the outer to inner membrane leaflet. This activity maintains phospholipid asymmetry across various membranes and contributes to vesicle formation and uptake of lipid signaling molecules. TMEM30B facilitates phospholipid substrate binding and mediates export of alpha subunits (ATP8A1, ATP8B1, ATP8B2, ATP8B4) from the endoplasmic reticulum to the plasma membrane. As a multi-pass transmembrane protein located primarily in the cell membrane, TMEM30B plays a fundamental role in cellular membrane organization and dynamics.