Recombinant FKB1B protein (His tag)

Catalog Number	540116
Synonyms	PPIase FKBP1B; 12.6 kDa FK506-binding protein; 12.6 kDa FKBP; FKBP-12.6; FK506-binding protein 1B; FKBP-1B; Immunophilin FKBP12.6; Rotamase; h-FKBP-12
Species	Human
Expression System	E. coli
Accession	P68106
Molecular Weight	Predictes a molecular mass of 13.44 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-108
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-108 aa (P68106) 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	Introducing the recombinant human Peptidyl-prolyl cis-trans isomerase FKBP1B (PPIase FKBP1B) fragment, encompassing amino acids 1-108. This high-purity protein includes the complete PPIase FKBP-type domain, making it an essential tool for studying proline isomerization, protein folding mechanisms, and immunophilin-related research in a controlled, functional format. FKBP1B, also known as FKBP-12.6 or immunophilin FKBP12.6, is a 12.6 kDa peptidyl-prolyl cis-trans isomerase (PPIase) that accelerates protein folding by catalyzing the isomerization of proline imidic peptide bonds. It localizes to the cytoplasm and sarcoplasmic reticulum, where it contributes to the immunosuppressive and toxic effects of compounds like FK506 and rapamycin. This enzyme plays a critical role in modulating protein conformation and function, with implications for immunology and cellular signaling pathways.