Recombinant MIS12 protein (His tag)

Catalog Number	548204
Species	Human
Expression System	E. coli
Accession	Q9H081
Molecular Weight	Predictes a molecular mass of 25.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	1-205
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-205 aa (Q9H081) 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 Protein MIS12 homolog (MIS12) fragment (residues 1-205) is a high-quality, stable protein designed for structural and biochemical studies. This fragment, computationally optimized for solubility and stability, supports research into kinetochore formation and mitotic chromosome segregation. The full-length Protein MIS12 homolog is a component of the MIS12 complex, essential for normal chromosome alignment and segregation during mitosis. It plays a critical role in kinetochore formation and proper kinetochore-microtubule attachments, ensuring accurate cell division. Located at the centromere and kinetochore regions of chromosomes, this protein is fundamental to mitotic fidelity, with implications in cellular division research.