Recombinant HROB protein (His tag)

Catalog Number	547733
Species	Human
Expression System	E. coli
Accession	Q8N3J3
Molecular Weight	Predictes a molecular mass of 16.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	449-577
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 449-577 aa (Q8N3J3) 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 HROB Fragment (449-577) is a high-quality protein product derived from the Homologous recombination OB-fold protein, designed for structural and biochemical studies. This 129-amino acid fragment represents a stable and soluble unit, ideal for investigating DNA repair mechanisms and helicase recruitment in homologous recombination pathways. The full-length Homologous recombination OB-fold protein (HROB) is a DNA-binding protein crucial for homologous recombination-mediated DNA repair. It functions by recruiting the MCM8-MCM9 helicase complex to sites of DNA damage, facilitating DNA repair synthesis. HROB is localized in the nucleus and associated with chromosomes, specifically accumulating at DNA damage sites, underscoring its essential role in maintaining genomic integrity.