Recombinant ORC6 protein (His tag)

Catalog Number	541632
Species	Human
Expression System	E. coli
Accession	Q9Y5N6
Molecular Weight	Predictes a molecular mass of 22.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-188
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 1-188 aa (Q9Y5N6) 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 ORC6 (Origin recognition complex subunit 6) fragment (amino acids 1-188) is a high-quality protein designed for structural and biochemical studies. This soluble and stable fragment retains key functional characteristics, making it ideal for investigating DNA replication initiation mechanisms. The full-length Origin recognition complex subunit 6 (ORC6) is a critical component of the origin recognition complex (ORC) in humans, which binds to replication origins in an ATP-dependent manner. ORC plays an essential role in assembling the pre-replication complex required for initiating DNA replication. Unlike some chromatin-associated proteins, ORC6 does not bind to trimethylated histone marks H3K9me3, H3K27me3, or H4K20me3. It is localized to the nucleus, where it participates in regulating cell division and genome stability. This recombinant fragment represents a stable, soluble region optimized for experimental applications.