Recombinant ONEC3 protein (His tag)

Catalog Number	549703
Synonyms	One cut homeobox 3; Transcription factor ONECUT-3; OC-3
Species	Human
Expression System	E. coli
Accession	O60422
Molecular Weight	Predictes a molecular mass of 22.07 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	320-494
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 320-494 aa (O60422) 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	This product offers a recombinant fragment (amino acids 320-494) of the human One Cut Domain Family Member 3 (ONECUT-3) protein, a transcriptional activator. The fragment has been computationally optimized for stability and solubility, making it ideal for structural studies and biochemical assays. The full-length ONECUT-3 protein functions as a transcriptional activator, binding to the consensus DNA sequence 5'-DHWATTGAYTWWD-3' on gene promoters, including those of HNF3B and TTR, thereby regulating gene expression. It is localized to the nucleus, where it exerts its role in transcriptional control, highlighting its importance in cellular regulatory mechanisms.