Recombinant NANGN protein (His tag)

Catalog Number	551985
Synonyms	Homeobox protein C14
Species	Human
Expression System	E. coli
Accession	Q7Z5D8
Molecular Weight	Predictes a molecular mass of 15.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	76-188
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 76-188 aa (Q7Z5D8) 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 our high-purity recombinant human NANOG neighbor homeobox (Homeobox protein C14, NANOGNB) fragment (residues 76-188). This 113-amino acid protein fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies, biochemical assays, and functional investigations of this homeodomain-containing transcription factor. The full-length NANOG neighbor homeobox protein, encoded by the NANOGNB gene, is a transcription factor localized to the nucleus, as indicated by its subcellular location annotation. Homeobox proteins play crucial roles in developmental processes and gene regulation by binding DNA. While a detailed functional summary is not provided, proteins in this family are typically involved in controlling body plan development and cellular differentiation. This specific fragment offers researchers a defined, soluble unit for probing the molecular mechanisms of NANOGNB without the complexities associated with the full-length protein.