Recombinant CDX4 protein (His tag)

Catalog Number	541716
Synonyms	Caudal-type homeobox protein 4
Species	Human
Expression System	E. coli
Accession	O14627
Molecular Weight	Predictes a molecular mass of 12.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	155-240
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 155-240 aa (O14627) 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 Homeobox Protein CDX-4 (Caudal-type homeobox protein 4) Fragment (residues 155-240) is a highly stable and soluble 86-amino acid protein unit, ideal for structural biology and biochemical studies. This fragment was computationally optimized to ensure robust performance in experimental applications. The full-length Homeobox protein CDX-4, encoded by the CDX4 gene, is a transcription factor localized to the nucleus, as indicated by its subcellular location. While specific functional details are not provided, CDX-4 belongs to the caudal-type homeobox protein family, which typically regulates gene expression involved in embryonic development and cellular differentiation. The nuclear localization underscores its role in DNA binding and transcriptional regulation processes.