Recombinant FOXD4 protein (His tag)

Catalog Number	548952
Synonyms	Forkhead-related protein FKHL9; Forkhead-related transcription factor 5; FREAC-5; Myeloid factor-alpha
Species	Human
Expression System	E. coli
Accession	Q12950
Molecular Weight	Predictes a molecular mass of 13.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	103-203
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 103-203 aa (Q12950) 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 Forkhead box protein D4 (FOXD4) fragment (residues 103-203) is a high-purity, stable protein designed for structural and biochemical studies. This 101-amino acid fragment was computationally optimized for solubility and stability, making it an ideal tool for investigating the molecular mechanisms of this key transcription factor. Forkhead box protein D4 (FOXD4) is a human transcription factor localized to the nucleus, indicating its role in regulating gene expression. As a member of the forkhead box family, FOXD4 is involved in critical cellular processes through DNA binding and transcriptional regulation. The nuclear localization confirms its direct involvement in nuclear functions, positioning it as an important target for research in gene regulation and developmental biology.