Recombinant FKH3 protein (His tag)

Catalog Number	534487
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	A0A078BQN7
Gene ID	181465
Molecular Weight	Predictes a molecular mass of 25.26 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	97-296
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 97-296 aa (A0A078BQN7) 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 Forkhead box protein fkh-3 fragment (residues 97-296), derived from Caenorhabditis elegans, is a high-purity protein designed for structural and biochemical studies. This 200-amino acid fragment represents a stable, soluble unit ideal for investigating transcription factor mechanisms and DNA-binding activities. Forkhead box protein fkh-3 is a transcription factor in Caenorhabditis elegans that binds specifically to the DNA sequence motif 5'-CTGTTTCA-3'. It plays a critical role in regulating the expression of 21U-RNAs, a class of small RNAs, and functions redundantly with fkh-4 and fkh-5 in this process. The protein is localized to the nucleus, consistent with its role in transcriptional regulation. The provided fragment (97-296) was computationally selected to ensure stability and solubility, enabling detailed analysis of its functional properties without the full-length protein's complexities.