Recombinant ABF2 protein (His tag)

Catalog Number	534061
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5EC68
Gene ID	266826
Molecular Weight	Predictes a molecular mass of 10.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1-85
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-85 aa (G5EC68) 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 Antibacterial Factor-related Peptide 2 (abf-2) Fragment (1-85) from Caenorhabditis elegans - a highly stable and soluble protein fragment engineered for structural and biochemical studies of broad-spectrum antimicrobial activity. Antibacterial Factor-related Peptide 2 is a secreted antimicrobial protein from Caenorhabditis elegans that demonstrates potent activity against a diverse range of microorganisms. The full-length protein exhibits antimicrobial effects against Gram-positive bacteria including Bacillus subtilis and Staphylococcus aureus, Gram-negative bacteria such as Agrobacterium tumefaciens and Klebsiella pneumoniae, and various yeasts including Candida krusei and Kluyveromyces thermotolerans. As a secreted factor, this protein plays a crucial role in the innate immune defense system of C. elegans, providing protection against bacterial and fungal pathogens through its broad-spectrum antimicrobial properties.