Recombinant KARG2 protein (His tag)

Catalog Number	536213
Synonyms	AK
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q27535
Gene ID	172907
Molecular Weight	Predictes a molecular mass of 42.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	1-360
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 1-360 aa (Q27535) 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 Probable Arginine Kinase ZC434.8 (AK) Fragment (residues 1-360) from Caenorhabditis elegans. This high-purity fragment fully encompasses the Phosphagen kinase N-terminal and C-terminal domains, making it an ideal tool for investigating domain-specific functions in phosphagen metabolism and energy regulation. Probable arginine kinase ZC434.8 (EC 2.7.3.3) is a phosphagen kinase from Caenorhabditis elegans that plays a critical role in cellular energy homeostasis. As a member of the arginine kinase family, it catalyzes the reversible transfer of phosphate between ATP and arginine, functioning as an essential energy buffer in cells by maintaining ATP levels during periods of high energy demand. The recombinant fragment (residues 1-360) preserves the complete functional domain architecture, enabling targeted studies of phosphagen kinase mechanisms and energy metabolism pathways.