Recombinant KSRB protein (His tag)

Catalog Number	530833
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5EDA5
Gene ID	173085
Molecular Weight	Predictes a molecular mass of 38.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	237-550
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 237-550 aa (G5EDA5) 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 Kinase suppressor of Ras B (KSR-2) fragment (residues 237-550) from Caenorhabditis elegans, encompassing the complete protein kinase domain. This fragment serves as an essential tool for investigating Ras-mediated signaling pathways and domain-specific functions in a controlled experimental setting. Kinase suppressor of Ras B (ksr-2) is a probable inactive protein kinase that positively regulates Ras-mediated signaling, likely acting at the level of let-60/ras or/and lin-45/raf. It plays critical roles in meiotic progression during oogenesis, mpk-1 phosphorylation, and meiotic recombination events in the germline. Additionally, ksr-2 functions redundantly with ksr-1 in somatic processes, including larval survival, excretory canal development, vulval precursor cell fate determination, and mpk-1 phosphorylation. The provided fragment spans residues 237-550, fully containing the protein kinase domain, enabling focused studies on its structural and functional contributions to these biological processes.