Recombinant STRD1 protein (His tag)

Catalog Number	532484
Synonyms	STRAD STE20-related adapter homolog
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5ECN5
Gene ID	176526
Molecular Weight	Predictes a molecular mass of 41.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	43-388
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 43-388 aa (G5ECN5) 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 STE20-related kinase adapter protein strd-1 (STRAD STE20-related adapter homolog) fragment (residues 43-388) from Caenororhabditis elegans. This high-purity fragment includes the complete protein kinase domain (residues 52-335), making it an essential tool for investigating kinase adapter functions in neuronal polarity, synaptic organization, and asymmetric cell division. The full-length STE20-related kinase adapter protein strd-1 is a pseudokinase that functions as a critical adapter for kinases sad-1 and par-4, regulating multiple developmental processes. It autonomously controls neuronal polarity and synaptic organization by binding sad-1 and facilitating its synaptic localization. Additionally, strd-1 establishes germline stem cell quiescence during dauer development, promotes embryonic cell shedding, and governs asymmetric Q.p neuroblast division through interactions with par-4. It also helps maintain early embryonic cortex integrity. Subcellularly, strd-1 localizes to perikarya, nuclei, dendrites, axons, synapses, the cytoplasm, and the cell cortex, with synaptic co-localization alongside sad-1 and cortical co-localization regulated by par-4, underscoring its versatile roles in cellular organization and signaling.