Recombinant RING2 protein (His tag)

Catalog Number	530863
Synonyms	RING domain-containing protein spat-3
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	H2KYH3
Gene ID	259704
Molecular Weight	Predictes a molecular mass of 24.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1945-2150
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 1945-2150 aa (H2KYH3) 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	This recombinant protein product features a stable and soluble fragment (residues 1945-2150) of the E3 ubiquitin-protein ligase RING2 homolog spat-3 from Caenororhabditis elegans. Designed for structural and biochemical studies, this 206-amino acid fragment enables researchers to investigate the ubiquitination mechanisms central to histone modification and gene regulation. The full-length E3 ubiquitin-protein ligase RING2 homolog spat-3 (UniProt ID: H2KYH3) plays a critical role in histone code regulation and gene expression by mediating the ubiquitination of histone H2A. In Caenororhabditis elegans, it is essential for developmental processes, including the formation of male-specific genital sensilla (rays), migration of hermaphrodite-specific neurons (HSN), extension of neuronal processes, and repression of vulval fates in hypodermal cells. These functions underscore its importance in epigenetic regulation and neurodevelopment, making it a valuable target for research in cellular signaling and developmental biology.