Recombinant MPIP2 protein (His tag)

Catalog Number	533635
Synonyms	Cell division cycle-related protein 25.2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	O44628
Gene ID	178645
Molecular Weight	Predictes a molecular mass of 22.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	206-375
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 206-375 aa (O44628) 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	Introducing the recombinant M-phase inducer phosphatase cdc-25.2 (EC 3.1.3.48) fragment (residues 206-375), a highly specific protein segment encompassing the essential Rhodanese domain. This product is engineered to support research into cell cycle regulation, intestinal development, and male tail morphogenesis in C. elegans, offering researchers a precise tool for domain-focused functional studies. The full-length M-phase inducer phosphatase cdc-25.2 is a critical cell division regulator in Caenorhabditis elegans, encoded by the gene cdc-25.2. It is required for intestinal cell division beyond the 16E embryonic stage, functioning through modulation of wee-1.3 activity and activation of the cdk-1/cyb-1 complex. Additionally, it contributes to male tail development by regulating ray precursor cell divisions, potentially in coordination with cell cycle proteins such as cyl-1, cdk-1, cyb-3, and cyd-1. This phosphatase plays a vital role in developmental processes by controlling key cell cycle transitions.