Recombinant CGL2 protein (His tag)

Catalog Number	535252
Synonyms	Gamma-cystathionase
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P55216
Gene ID	174155
Molecular Weight	Predictes a molecular mass of 44.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	1-392
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 1-392 aa (P55216) 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 fragment of Putative cystathionine gamma-lyase 2 (Cth-2) from Caenorhabditis elegans, encompassing residues 1-392. This fragment was computationally designed for optimal stability and solubility, making it ideal for structural studies and biochemical assays. Putative cystathionine gamma-lyase 2 (EC 4.4.1.1), encoded by the cth-2 gene in Caenorhabditis elegans, is a gamma-cystathionase enzyme involved in sulfur metabolism. According to UniProt annotation, this protein is localized in the cytoplasm, suggesting its role in intracellular metabolic pathways. The full-length enzyme catalyzes the breakdown of cystathionine, contributing to cysteine biosynthesis and redox regulation.