Recombinant CC44 protein (His tag)

Catalog Number	534790
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q09660
Gene ID	173936
Molecular Weight	Predictes a molecular mass of 57.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band.

Product Information

Sequence Region	1-489
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-489 aa (Q09660) 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 Probable cytochrome P450 CYP44 (EC 1.14.-.-) fragment (residues 1-489) from Caenorhabditis elegans, engineered for stability and solubility to support structural and biochemical studies of this versatile monooxygenase. Cytochromes P450 are heme-thiolate monooxygenases that catalyze the oxidation of diverse substrates, including steroids, fatty acids, and xenobiotics. This enzyme family plays critical roles in metabolic pathways and detoxification processes. The full-length Probable cytochrome P450 CYP44 is implicated in these oxidation reactions, contributing to essential biological functions in C. elegans.