Recombinant FACE2 protein (His tag)

Catalog Number	533614
Synonyms	Farnesylated proteins-converting enzyme 2; FACE-2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5EEP3
Gene ID	3565253
Molecular Weight	Predictes a molecular mass of 12.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	99-185
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 99-185 aa (G5EEP3) 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 CAAX prenyl protease 2 (EC 3.4.26.1), also known as FACE-2, from Caenorhabditis elegans, is offered as a stable and soluble fragment (residues 99-185). This product is ideal for investigating the enzyme's role in processing prenylated proteins and supports structural and biochemical studies. CAAX prenyl protease 2 (FACE-2) is a protease that processes prenylated proteins containing the C-terminal CAAX motif, where C is a cysteine modified with an isoprenoid lipid, A is an aliphatic amino acid, and X is any C-terminal amino acid. It proteolytically removes the C-terminal three residues of farnesylated and geranylated proteins, leaving the prenylated cysteine as the new C-terminus. The enzyme is localized to the endoplasmic reticulum membrane as a multi-pass membrane protein, playing a critical role in the maturation and functional regulation of various prenylated proteins involved in cellular signaling and membrane association.