Recombinant FACE1 protein (His tag)

Catalog Number	544186
Synonyms	Farnesylated proteins-converting enzyme 1; FACE-1; Prenyl protein-specific endoprotease 1; Zinc metalloproteinase Ste24 homolog
Species	Human
Expression System	E. coli
Accession	O75844
Molecular Weight	Predictes a molecular mass of 9.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	217-287
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 217-287 aa (O75844) 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 71-amino acid fragment (residues 217-287) of human CAAX prenyl protease 1 homolog (ZMPSTE24), a key transmembrane metalloprotease involved in lamin A processing and antiviral defense. The fragment has been computationally optimized for stability and solubility, making it ideal for structural studies and biochemical assays. CAAX prenyl protease 1 homolog (ZMPSTE24) is a transmembrane metalloprotease critical for processing lamin A/LMNA at the inner nuclear membrane and clearing clogged translocons in the endoplasmic reticulum. It proteolytically removes the C-terminal three residues of farnesylated proteins. Beyond its protease function, ZMPSTE24 exhibits broad-spectrum antiviral activity against enveloped RNA and DNA viruses—including influenza A, Zika, Ebola, and vaccinia—by modulating the IFITM pathway and endosomal membrane fluidity. The protein localizes to the endoplasmic reticulum membrane, nucleus inner membrane, and early/late endosome membranes, reflecting its multifunctional roles in cellular maintenance and innate immunity.