Recombinant XPP3 protein (His tag)

Catalog Number	543701
Synonyms	X-Pro aminopeptidase 3; Aminopeptidase P3; APP3
Species	Human
Expression System	E. coli
Accession	Q9NQH7
Molecular Weight	Predictes a molecular mass of 53.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	45-507
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 45-507 aa (Q9NQH7) 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 Human Xaa-Pro Aminopeptidase 3 (XPNPEP3) Fragment (residues 45-507) is a high-purity, stable protein designed for structural and functional studies. This 463-amino acid fragment retains key enzymatic activity, specifically cleaving penultimate prolyl residues from peptide N-termini, and is optimized for solubility and reliability in biochemical assays. Xaa-Pro aminopeptidase 3 (XPNPEP3) is a human enzyme that catalyzes the removal of penultimate prolyl residues from peptides such as Leu-Pro-Ala, with minor activity toward peptides containing Ala or Ser at the P1 position. Full-length isoform 1 localizes primarily to mitochondria and translocates to the cytoplasm upon TNFRSF1B activation, where it acts as an adapter protein to promote MAPK8/JNK1 and MAPK9/JNK2 phosphorylation and may inhibit TNF-TNFRSF1B-mediated apoptosis, independently of its peptidase function. Isoform 2 is cytoplasmic. This recombinant fragment (residues 45-507) represents a stable, soluble unit ideal for investigating the protein's catalytic mechanisms and structural properties.