Recombinant DPP3 protein (His tag)

Catalog Number	533529
Synonyms	Dipeptidyl aminopeptidase III; Dipeptidyl arylamidase III; Dipeptidyl peptidase III; DPP III
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VHR8
Gene ID	40996
Molecular Weight	Predictes a molecular mass of 54.25 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band.

Product Information

Sequence Region	130-594
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 130-594 aa (Q9VHR8) 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 product is a recombinant fragment of Dipeptidyl peptidase 3 (DPP III) from Drosophila melanogaster, encompassing residues 130-594. It is designed for structural and biochemical studies, offering a stable and soluble unit that retains key functional characteristics for research applications. Dipeptidyl peptidase 3 (EC 3.4.14.4) is an enzyme that degrades neuropeptide proctolin by cleaving between Tyr and Leu residues, as supported by experimental evidence. The full-length protein is localized to the membrane and cytoplasm, with isoforms functioning as multi-pass membrane proteins, indicating its role in peptide metabolism and cellular signaling pathways.