Recombinant GR10A protein (His tag)

Catalog Number	534764
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P58950
Gene ID	117501
Molecular Weight	Predictes a molecular mass of 14.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	166-270
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 166-270 aa (P58950) 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 Gustatory receptor 10a (Gr10a) fragment (residues 166-270) from Drosophila melanogaster, designed for structural and biochemical studies. This 105-amino acid fragment represents a stable, soluble unit of the protein, ideal for investigating taste perception mechanisms in fruit flies. The full-length Gustatory receptor 10a (Gr10a) is a multi-pass membrane protein localized to the cell membrane in Drosophila melanogaster. It functions as a probable gustatory receptor that mediates acceptance or avoidance behavior depending on its substrates, playing a critical role in taste perception and feeding behavior. This fragment was computationally selected to provide a stable, soluble region for experimental analysis without containing known protein domains.