Recombinant GR02A protein (His tag)

Catalog Number	534046
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9W594
Gene ID	31093
Molecular Weight	Predictes a molecular mass of 11.27 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	62-145
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 62-145 aa (Q9W594) 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 Putative gustatory receptor 2a (Gr2a) fragment (residues 62-145) from Drosophila melanogaster, designed for structural and biochemical studies. This 84-amino acid soluble fragment enables investigation of gustatory receptor mechanisms in a stable, experimentally accessible format. The full-length Putative gustatory receptor 2a (Gr2a) is a multi-pass membrane protein localized to the cell membrane in Drosophila melanogaster. It functions as a probable gustatory receptor mediating acceptance or avoidance behaviors in response to unidentified substrates, playing a key role in chemosensory perception. This recombinant fragment represents a stable, soluble unit selected through computational analysis to facilitate research into receptor structure-function relationships without the challenges of full-length membrane protein expression.