Recombinant GSTD6 protein (His tag)

Catalog Number	534232
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VG94
Gene ID	48339
Molecular Weight	Predictes a molecular mass of 26.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-215
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-215 aa (Q9VG94) 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 Glutathione S-transferase D6 (EC 2.5.1.18) fragment (residues 1-215) from Drosophila melanogaster, encompassing the complete GST N-terminal and C-terminal domains. This high-purity protein is an essential tool for investigating glutathione conjugation mechanisms and detoxification pathways in biochemical and cellular studies. Glutathione S-transferase D6 (GstD6) is an enzyme from Drosophila melanogaster that catalyzes the conjugation of reduced glutathione to a broad range of exogenous and endogenous hydrophobic electrophiles. Based on functional studies (PubMed:22082028), it plays a critical role in cellular detoxification processes by facilitating the neutralization and elimination of electrophilic compounds. The full-length protein's activity underscores its importance in xenobiotic metabolism and cellular defense mechanisms, though its subcellular localization remains uncharacterized. The recombinant fragment (1-215) retains the complete functional domains necessary for studying glutathione transferase activity and substrate specificity.