Recombinant EIGER protein (His tag)

Catalog Number	533423
Synonyms	Protein eiger
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q8MUJ1
Gene ID	36054
Molecular Weight	Predictes a molecular mass of 17.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	277-415
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 277-415 aa (Q8MUJ1) 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 Drosophila melanogaster Tumor Necrosis Factor Family Member Eiger (Protein Eiger) Fragment (aa 277-415), encompassing the complete THD domain. This high-purity fragment serves as an essential research tool for investigating the specific functional mechanisms of Eiger's TNF homology domain in apoptosis signaling, immune responses, and cellular regulation pathways. Tumor necrosis factor family member eiger (Protein Eiger) is a crucial cytokine in Drosophila melanogaster that functions as a ligand for receptors wgn and grnd. This protein plays a central role in inducing apoptosis through JNK signaling activation and is involved in developmental processes, innate immune responses, and tissue homeostasis. Eiger exists in two forms: a membrane-bound type II transmembrane protein and a soluble secreted form that can be internalized into cytoplasmic vesicles upon receptor binding. The protein demonstrates dual functionality, acting as both a tumor suppressor by eliminating oncogenic cells and, under certain conditions, promoting tumor progression through cell proliferation and invasive spread. Additionally, Eiger regulates insulin production in response to dietary changes and participates in stress-induced intestinal stem cell proliferation, melanization immune responses, and thermal allodynia development following tissue damage. The THD domain contained within this recombinant fragment is critical for receptor binding and signaling initiation.