Recombinant MAPK2 protein (His tag)

Catalog Number	532093
Synonyms	MAPK-activated protein kinase 2; MAPKAP kinase 2; MAPKAPK-2
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P49071
Gene ID	44573
Molecular Weight	Predictes a molecular mass of 43.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	1-359
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 1-359 aa (P49071) 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 MAP kinase-activated protein kinase 2 (MAPKAPK-2) fragment (amino acids 1-359) from Drosophila melanogaster, encompassing the complete protein kinase domain. This high-quality recombinant protein serves as an essential tool for investigating kinase signaling pathways and heat shock protein regulation. MAP kinase-activated protein kinase 2 (MAPKAPK-2) functions as a key signaling component downstream of MAP kinase pathways. Based on available functional data, its primary physiological substrate appears to be the small heat shock protein HSP27/HSP25, positioning it as a critical regulator in cellular stress response mechanisms. This serine/threonine protein kinase (EC 2.7.11.1) plays important roles in signal transduction cascades, though specific subcellular localization information requires further experimental determination.