# Recombinant DMAP1 protein (His tag)

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| **Catalog Number** | 531145 |
| **Species** | Drosophila melanogaster |
| **Expression System** | E. coli |
| **Accession** | Q7K3D8 |
| **Gene ID** | 37339 |
| **Molecular Weight** | Predictes a molecular mass of 24.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band. |

## Product Information

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| **Sequence Region** | 87-276 |
| **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 87-276 aa (Q7K3D8) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant DNA methyltransferase 1-associated protein 1 (DMAP1) fragment from Drosophila melanogaster, encompassing residues 87-276. This 190-amino acid fragment includes the Myb-like domain, making it an ideal tool for investigating domain-specific functions in transcription regulation and immune response pathways.<br>DNA methyltransferase 1-associated protein 1 (DMAP1) is involved in both transcription repression and activation, playing a critical role in larvae and pupal development and normal innate immune responses in Drosophila melanogaster. It modulates the immune deficiency (Imd) pathway, potentially acting downstream of or at the level of the NF-kappa-B factor Rel. DMAP1 may function with akirin to regulate Rel and interact with the Brahma complex protein Bap55, suggesting a role in chromatin remodeling during IMD pathway regulation. The protein localizes to both the nucleus and cytoplasm, indicating its involvement in diverse cellular processes. |