# Recombinant Drosophila melanogaster tau Protein (Full length)

**Cat. No.** tau-38D **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length Drosophila melanogaster tag-free Tau-361 was expressed in E. coli cells. |
| **Species** | Drosophila melanogaster |
| **Source** | E.coli |
| **ProteinLength** | Full Length |
| **Description** | Drosophila melanogaster Tau-361 and human Tau-441 are homologs with amino acid sequence similarities and share functional properties in microtubule binding and stability. Tau-361 exhibits 46% identity and 66% similarity with human Tau-441. Tau-361 contains five putative microtubule binding domain (MTBD) repeats, but does not contain the N-terminal MTBD repeats found in human Tau-441. Drosophila melanogaster is a widely used powerful model organism utilized to investigate in vivo toxicity of proteins linked to neurodegenerative diseases, particularly Alzheimer's disease where the accumulation of post-translationally modified Tau species leads to the formation of intracellular neurofibrillary tangles and subsequent neuronal death. |
| **Molecular Mass** | Observed MW: ~53 kDa.<br>Calculated MW: ~41 kDa. |
| **Purity** | The purity of Tau-361 was determined to be > 70 % by densitometry. |

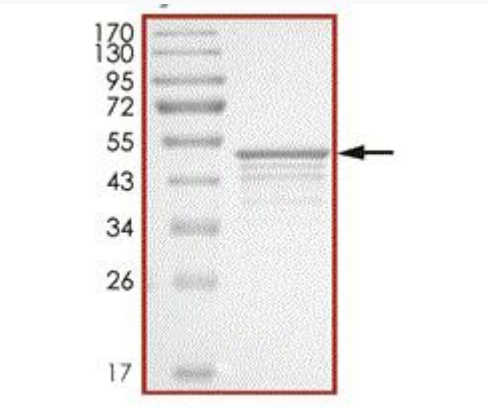
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| **Stability** | One year at -70 centigrade from date of shipment. |
| **Storage** | Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| **Concentration** | 0.2 μg/μL |
| **Storage Buffer** | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0,25mM DTT, 25% glycerol. |
| **Shipping** | Dry ice |

## GENE INFORMATION

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| **Gene Name** | tau [ Drosophila melanogaster (fruit fly) ] |
| **Official Symbol** | tau |
| **Synonyms** | tau; Dmel_CG31057; Dmel_CG31058; Dmel_CG34294; BcDNA:RE16764; CG12881; CG31057; CG31058; CG34294; CG45110; CG5606; d-tau; Dmel\CG45110; dtau; dTau; dTAU; Tau; tau; CG45110-PA; CG45110-PB; CG45110-PC; CG45110-PE; CG45110-PF; CG45110-PG; CG45110-PH; CG45110-PI; CG45110-PJ; CG45110-PK; CG45110-PL; CG45110-PM; CG45110-PN; CG45110-PO; tau-PA; tau-PB; tau-PC; tau-PE; tau-PF; tau-PG; tau-PH; tau-PI; tau-PJ; tau-PK; tau-PL; tau-PM; tau-PN; tau-PO |
| **Gene ID** | 326116 |
| **mRNA Refseq** | NM_143318 |

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| **Protein Refseq** | NP_651575 |
| **UniProt ID** | Q9VB13 |
| **Purity** |  |



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