# Recombinant Mouse Pten Protein, Myc/DDK-tagged

**Cat. No.** Pten-5216M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of mouse full-length phosphatase and tensin homolog (Pten), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | This gene encodes a phosphatase with dual activity against phospholipids and proteins, and acts as a tumor-suppressor. The protein contains four structural domains, a PIP2-binding domain, a catalytic tensin-type phosphatase domain, a C2 tensin-type domain and a PDZ-binding domain. The protein belongs to the protein tyrosine phosphatase family. Deletion of this gene in mice contribute to tumorigenesis in multiple tissues. |
| **Molecular Mass** | 47.6 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade after receiving vials. |
| **Concentration** | >50 μg/mL as determined by microplate BCA method |

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| **Storage Buffer** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

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| **Gene Name** | Pten phosphatase and tensin homolog [ Mus musculus (house mouse) ] |
| **Official Symbol** | Pten |
| **Synonyms** | PTEN; phosphatase and tensin homolog; phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; mutated in multiple advanced cancers 1; TEP1; MMAC1; AI463227; 2310035O07Rik; A130070J02Rik; B430203M17Rik; MGC183880 |
| **Gene ID** | 19211 |
| **mRNA Refseq** | NM_008960 |
| **Protein Refseq** | NP_032986 |
| **UniProt ID** | O08586 |

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