# Active Recombinant Human PTPRE, GST-tagged

**Cat. No.** PTPRE-1523H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human PTPRE (75-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **ProteinLength** | 75 aa-end |
| **Description** | PTPRE or protein tyrosine phosphatase receptor type E is a member of the protein tyrosine phosphatase (PTP) family. This family of proteins are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPRE is highly expressed in brain and testis. The regulatory roles of this PTP in Ras related signal transduction pathways, cytokines induced signaling, as well as the activation of voltage-gated K+ channels have been identified. PTPRE has a transmembrane segment and a cytoplasmic region containing duplicated PTPase domains. |
| **Form** | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| **Bio-activity** | 8,600 nmol/min/mg |
| **Molecular Mass** | ~91 kDa |

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| **Purity** | >95% |
| **Applications** | Phosphatase Assay, Western Blot |
| **Storage** | Store at–70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles. |
| **Concentration** | 0.1μg/μl |

## GENE INFORMATION

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| **Gene Name** | PTPRE protein tyrosine phosphatase, receptor type, E [ Homo sapiens ] |
| **Official Symbol** | PTPRE |
| **Synonyms** | PTPRE; protein tyrosine phosphatase, receptor type, E; receptor-type tyrosine-protein phosphatase epsilon; PTPE; protein tyrosine phosphatase, receptor type, epsilon polypeptide; HPTPE; FLJ57799; FLJ58245; R-PTP-EPSILON; DKFZp313F1310; |
| **Gene ID** | 5791 |
| **mRNA Refseq** | NM_006504 |
| **Protein Refseq** | NP_006495 |
| **MIM** | 600926 |
| **UniProt ID** | P23469 |
| **Chromosome Location** | 10q26 |

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| **Function** | hydrolase activity; protein binding; protein homodimerization activity; protein tyrosine phosphatase activity; receptor activity; transmembrane receptor protein tyrosine phosphatase activity; |

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