

Product Information

PTPRE, active, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5333**
Storage Temperature -70°C

Synonyms: PTPE, P-PTP-epsilon, HPTPE, R-PTP-EPSILON, RP11-380J17.1, DKFZp313F1310, FLJ57799, FLJ58245

Product Description

PTPRE or protein tyrosine phosphatase receptor type E is a member of the protein tyrosine phosphatase (PTP) family. This family of proteins is 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.¹ 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.²

Recombinant human PTPRE (75-end) was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is BC050062. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~91 kDa

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)

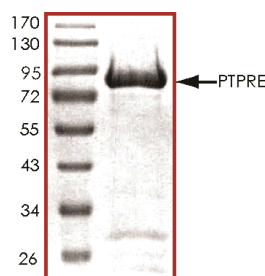
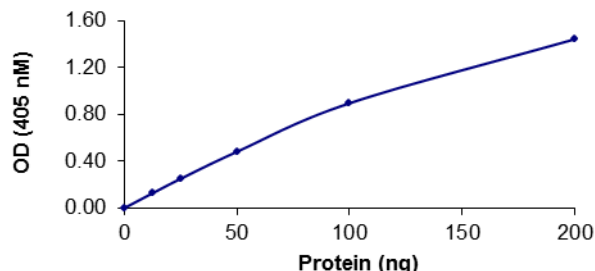


Figure 2.
Specific Activity of Typical Lot:
6,880–10,320 nmole/min/mg



Phosphatase activity was determined with a spectrophotometric assay procedure.

References

1. Yi, T. et al., Identification of novel protein tyrosine phosphatases of hematopoietic cells by polymerase chain reaction amplification. *Blood*, **78**, 2222-2228 (1991).
2. Krueger, N.X. et al., Structural diversity and evolution of human receptor-like protein tyrosine phosphatases. *EMBO J.*, **9**, 3241-3252 (1990).

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