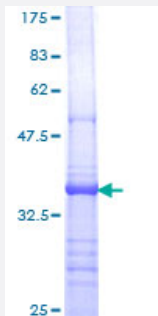


# PTPRE (Human) Recombinant Protein (Q01)

Catalog # H00005791-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human PTPRE partial ORF ( AAH50062, 511 a.a. - 600 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	WRMIWEWKSHITVMLTEVQEREQDKCYQYWPTEGSVTHGEITIEIKNDTLSEAISIRDFLVTNLNQPQ ARQEEQVRVVRQFHFHGWPEIGI
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	35.64
<b>Interspecies Antigen Sequence</b>	Mouse (90); Rat (91)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PTPRE

Entrez GeneID [5791](#)

GeneBank Accession# [BC050062](#)

Protein Accession# [AAH50062](#)

Gene Name PTPRE

Gene Alias DKFZp313F1310, FLJ57799, FLJ58245, HPTPE, PTPE, R-PTP-EPSILON

Gene Description protein tyrosine phosphatase, receptor type, E

Omim ID [600926](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Two alternatively spliced transcript variants of this gene have been reported, one of which encodes a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains; Another one encodes a PTP that contains a distinct hydrophilic N-terminus, and thus represents a nonreceptor-type isoform of this PTP. Studies of the similar gene in mice suggested the regulatory roles of this PTP in RAS related signal transduction pathways, cytokines induced SATA signaling, as well as the activation of voltage-gated K<sup>+</sup> channels. [provided by RefSeq]

**Other Designations**

OTTHUMP00000020735|OTTHUMP00000020736|protein tyrosine phosphatase epsilon|protein tyrosine phosphatase, receptor type, epsilon polypeptide

## Disease

- [Alzheimer Disease](#)
- [Asthma](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Tobacco Use Disorder](#)