

## Product datasheet for TP307950

### PTP epsilon (PTPRE) (NM\_006504) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, receptor type, E (PTPRE), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207950 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MEPLCPLLLVGFSLPLARALRGNETTADSNETTTSVGGPPDPGASQPLLAWLLLPLLLLLLVLLLAAYFFR  
FRKQRKAVVSTSDKKMPNGILEEQEQQRVMLLSRSPSGPKKYFPIVVEHLEEEIRIRSADDCKQFREEFN  
SLPSGHIQGT FELANKEENREKNRYPNLPNDHSRVLSQLDGPVCSYINASYIDGYKEKNKFIQAQGP  
KQETVNDWFWRMVWEQKSATIVMLTNLKERKEEKCHQYWPDPQGCWYGNIRVCVEDCVLVDYTIKFCIQ  
PQLPDGCKAPRLVSQLHFTSWPDFGVPFTPIGMLKFLKVKVTLNPNVHAGPIVHCSAGVGRGTGFVIDA  
MMAMMHAEQKVDVFEFVSRIQRPMQVQTDQMRYFYQALLEYYLYGDELTVSSLEKHLQTMHGTTTH  
FDKIGLEEEFRKLTNVRIMKENMRTGNLPANMKARVIQIIPYDFNRVILSMKRGQEYTDYINASFIDGY  
RQKDYFIATQGPLAHTVEDFWRMIWEWKSHTIVMLTEVQEREQDKCYQYWPTEGSVTHGEITIEIKNDTL  
SEAISIRDFLVTLNQPQARQEEQVRVWRQFHFGWPEIGIPAEGKGMIDLIAAVQKQQQTGNHPITVHC  
SAGAGRTGTFIALSNILERVKAEGLLDVFQAVKSLRLQRPHMVQTLEQYFCYKVVQDFIDIFSDYANFK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	80.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_006495](#)

**Locus ID:** 5791

**UniProt ID:** [P23469](#), [Q96P81](#)

**RefSeq Size:** 5392

**Cytogenetics:** 10q26.2

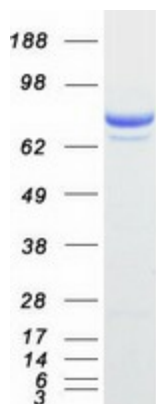
**RefSeq ORF:** 2100

**Synonyms:** HPTPE; PTPE; R-PTP-EPSILON

**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. Several alternatively spliced transcript variants of this gene have been reported, at least two of which encode 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, cytokine-induced SATA signaling, as well as the activation of voltage-gated K<sup>+</sup> channels. [provided by RefSeq, Oct 2015]

**Protein Families:** Druggable Genome, Phosphatase, Transmembrane

### Product images:



Coomassie blue staining of purified PTPRE protein (Cat# TP307950). The protein was produced from HEK293T cells transfected with PTPRE cDNA clone (Cat# [RC207950]) using MegaTran 2.0 (Cat# [TT210002]).