

Recombinant Full Length Human PTPRE Protein, Flag tagged

Cat. No. PTPRE-02HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human protein tyrosine phosphatase, receptor type, E (PTPRE), transcript variant 1 with C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-700 aa
Description	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 ⁺ channels.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	80.5 kDa

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AASequence

MEPLCPLLLVGFSPLARALRGNETTADSNETTTTSGPPDPGASQPLLAWLLLPLLLL
 LLVLLLAAYFFRFRKQRKAVVSTSDKKMPNGILEEQEQQRVMLLSRSPSGPKKYFPI
 PVEHLEEEIRIRSADDCKQFREEFNSLPSGHIQGT FELANKEENREKNRYPNILPNDH
 SRVILSQLDGIPCSDYINASYIDGYKEKNKFIAAQGPKQETVND FWRMVWEQKSATIV
 MLTNLKERKEEKCHQYWPDQGCWTYGNIRVCVEDCVLVDYTIRKFCIQQLPDGC
 KAPRLVSQLHFTSWPDFGVPFTPIGMLKFLKKVKTLPVHAGPIVVHCSAGVGRGTGT
 FIVIDAMMAMMHAEQKVDVFEFVSRI RNQRPQM VQTDMQYTFIYQALLEYYLYGDTE
 LDVSSLEKHLQTMHGTTTHFDKIGLEEEFRKLTNVRIMKENMRTGNLPANMKKARVI
 QIIPYDFNRVILSMKRGQEYTDYINASFIDGYRQKDYFIATQG PLAHTVEDFWRM IWE
 WKSHTIVMLTEVQEREQDKCYQYWPTEGSVTHGEITIEIKNDTLSEAISIRDFLVTLN
 QPQARQEEQVRVVRQFHFHGWPEIGIPAEGKGMIDLIAAVQKQQQTGNHPITVHC
 SAGAGRTGTFIALS NILERVKAEGLLDVFQAVKSLRLQRPHMVQTLEQYEF CYKVVQ
 DFIDIFSDYANFKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Notes

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

Concentration

>0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION
Gene Name

PTPRE protein tyrosine phosphatase receptor type E [Homo sapiens (human)]

Official Symbol

PTPRE

Synonyms

PTPRE; protein tyrosine phosphatase receptor type E; PTPE; HPTPE; R-PTP-

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EPSILON; receptor-type tyrosine-protein phosphatase epsilon; protein tyrosine phosphatase, receptor type, epsilon polypeptide; EC 3.1.3.48

Gene ID 5791

mRNA Refseq NM_006504

Protein Refseq NP_006495

MIM 600926

UniProt ID P23469

SDS-PAGE



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