

# Recombinant Human PTPRE Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PTPRE-2661H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PTPRE MS Standard C13 and N15-labeled recombinant protein (NP_006495) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 80.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MEPLCPLLLVGFSPLARALRGNETTADSNETTTTSGPPDPGASQPLLAWLLLPLLLL<br>LLVLLLAAYFFRFRKQRKAVVSTSDKMPNGILEEQEQQRVMLLSRSPSGPKKYFPI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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PVEHLEEEIRIRSADDCKQFREEFNLSLPSGHIQGT FELANKEENREKNRYPNILPNDH  
 SRVILSQLDGIPCSDYINASYIDGYKEKNKFIAAQGPKQETVND FWRMVWEQKSATIV  
 MLTNLKERKEEKCHQYWPDQGCWTYGNIRVCVEDCVVLVDYTIRKFCIQPLPDGC  
 KAPRLVSQLHFTSWPDFGVFTPIGMLKFLKKVKTLPVHAGPIVVHCSAGVGRGTGT  
 FIVIDAMMAMMHAEQKVDVFEFVSIRNRQRPQMVQTD MQYTFIYQALLEYYLYGDTE  
 LDVSSLEKHLQTMHGTTTHFDKIGLEEEFRKLTNVRIMKENMRTGNLPANMKKARVI  
 QIIPYDFNRVILSMKRGQEYTDYINASFIDGYRQKDYFIATQG PLAHTVEDFWRMWE  
 WKSHTIVMLTEVQEREQDKCYQYWPTEGSVTHGEITIEIKNDTLSEAISIRDFLVTLN  
 QPQARQEEQVRVVRQFHFHGWPEIGIPAEGKGMIDLIAAVQKQQQTGNHPITVHC  
 SAGAGRTGTFIALSNILERVKAEGLLDV FQAVKSLRLQRP HVMVQTLEQYEF CYKVVQ  
 DFIDIFSDYANFKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTPRE protein tyrosine phosphatase receptor type E [ Homo sapiens (human) ]                                                                                           |
| <b>Official Symbol</b> | PTPRE                                                                                                                                                                 |
| <b>Synonyms</b>        | PTPRE; protein tyrosine phosphatase, receptor type, E; receptor-type tyrosine-protein phosphatase epsilon; PTPE; protein tyrosine phosphatase, receptor type, epsilon |

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polypeptide; HPTPE; FLJ57799; FLJ58245; R-PTP-EPSILON; DKFZp313F1310;

**Gene ID** 5791

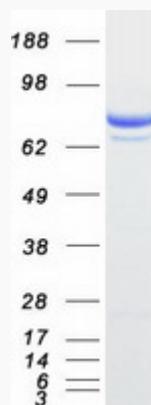
**mRNA Refseq** NM\_006504

**Protein Refseq** NP\_006495

**MIM** 600926

**UniProt ID** P23469

**SDS-PAGE**



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