

Product datasheet for PH307950

PTP epsilon (PTPRE) (NM_006504) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTPRE MS Standard C13 and N15-labeled recombinant protein (NP_006495)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207950
Predicted MW:	80.6 kDa
Protein Sequence:	>RC207950 protein sequence Red=Cloning site Green=Tags(s)

MEPLCPLLLVGFSLPLARALRGNETTADSNETTTTSGPPDPGASQPLLAWLLLPLLLLLLVLAAAYFFR
FRKQRKAVVSTSDKKMPNGILEEQEQQRVMLLSRSPSGPKKYFPVPEHLEEEIRIRSADDCKQFREEFN
SLPSGHIQGT FELANKEENREKNRYPNLPNDHSRVILSQLDGIPCSYINASYIDGYKEKNKFAAQGP
KQETVNDFWRMVWEQKSATIVMLTNLKERKEEKCHQYWPDQGCWYGNIRVCVEDCVVLVDYTIRKFCIQ
PQLPDGCKAPRLVSQLHFTSWPDFGVVPTPIGMLKFLKKVKTLPVHAGPIVVHCSAGVGRGTGTFIVIDA
MMAMMHAEQKVDVFEFVSRIRNQRPMVQTDQMOTYTFIYQALLEYYLYGDELDVSSLEKHLQTMHGTTTH
FDKIGLEEEFRKLTNVRIMKENMRTGNLPANMKKARVIQIIPYDFNRVILSMKRGQEYTDYINASFIDGY
RQKDYFIATQGPLAHTVEDFWRMIEWKSHTIVMLTEVQEREQDKCYQYWPTEGSVTHGEITIEIKNDTL
SEAISIRDFLVTLNQPQARQEEQVRVVRQFHFHWPEIGIPAEGKGMIDLIAAVQKQQQTGNHPITVHC
SAGAGRTGTFIALSNILERVKAEGLLDVFQAVKSLRLQRPHMVQTLEQYEFYKVVQDFIDIFSDYANFK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006495
RefSeq Size:	5392



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RefSeq ORF: 2100

Synonyms: HPTPE; PTPE; R-PTP-EPSILON

Locus ID: 5791

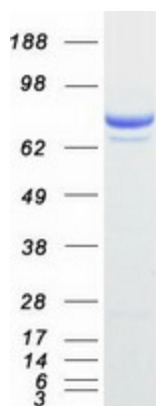
UniProt ID: [P23469](#), [Q96P81](#)

Cytogenetics: 10q26.2

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⁺ 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]).