

## Product datasheet for PH322592

### PTP alpha (PTPRA) (NM\_002836) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PTPRA MS Standard C13 and N15-labeled recombinant protein (NP_002827)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222592
Predicted MW:	90.72 kDa
Protein Sequence:	>RC222592 representing NM_002836 Red=Cloning site Green=Tags(s)

MDSWFILVLLGSLICVSANNATTVAPSVGITRLINSSTAEPVKEEAKTSNPTSSLTSLSVAPTFSPNIT  
LGPTYLTTVNSSDSNGTTRTASTNSIGITISPNGTWLPDNQFTDARTEPWEGNSSTAATTPETFPSPGN  
SDSKDRRDETPIIAVMVALSSLLVIVFIIIVLYMLRFKKYKQAGSHSNFRLSNGRTEDVEPQSVPLLAR  
SPSTNRKYPPLPVDKLEEEINRRMADDNKLFREEFNALPACPIQATCEAASKEENKEKNRYVNILPYDHS  
RVHLTPVEGVPSDYINASFINGYQEKNFIAAQGPKEETVNDFWRMIWEQNTATIVMVTNLKERKECKC  
AQYWPDQGCWTYGNIRVSVEDVTVLVDYTVRKFCIQQVGDMTNRKPQLITQHFHTSWPDFGVFPPIGM  
LKFLKVKACNPQYAGAIVVHCSAGVGRGTGFVVIDAMLDMHTRKVDVYGFVSRIRAQRQMVQTMQ  
YVFIYQALLEHYLYGDTELEVTSLETHLQKIYKIPGTSNNGLEEFKCLTSIKIQNDKMRGTGNLPANMK  
KNRVLQIIPYEFNRVVIIPVKRGEENTDYVNASFIDGYRQKDSYIASQGPLLHTIEDFWRMIWEWKSCSIV  
MLTELEERGQEKCAQYWPDGLVSYGDITVELKKEEESYTVRDLLVTNTRENKSRQIRQFHFHWPEV  
GIPSDGKGMISIIAAVQKQQQSGNHPITVHCSAGAGRTGTFALSTVLERVKAEGILDVFQTVKSLRLQ  
RPHMVQTLQYEFQYKVVQEYIDAFSDYANFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_002827</a>



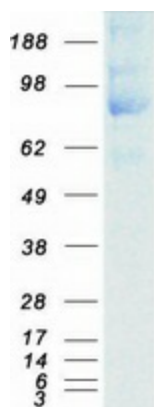
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RefSeq Size:	3643
RefSeq ORF:	2406
Synonyms:	HEPTP; HLPR; HPTPA; HPTPalpha; LRP; PTPA; PTPRL2; R-PTP-alpha; RPTPA
Locus ID:	5786
UniProt ID:	<a href="#">P18433</a>
Cytogenetics:	20p13

**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. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]

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

### Product images:



Coomassie blue staining of purified PTPRA protein (Cat# [TP322592]). The protein was produced from HEK293T cells transfected with PTPRA cDNA clone (Cat# [RC222592]) using MegaTran 2.0 (Cat# [TT210002]).