

## Product datasheet for PH300699

### PTPN7 (NM\_002832) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PTPN7 MS Standard C13 and N15-labeled recombinant protein (NP_002823)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200699
Predicted MW:	45 kDa
Protein Sequence:	>RC200699 representing NM_002832 Red=Cloning site Green=Tags(s)  MGASFWPIRQAREQRRALSFRQTSWLSEPPPLGPAPHL SMVQAHGGRSRAQPLTSLGAAMTQPPPEKTP AKKHVRLQERRGSNVALMLDVRS LGAVEPICSVNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEF LKIPSNFVSPEDLDIPGHASKDRYKTI LPNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVVYIATQGP MPNTVSDFWEMVWQEEVSLIVML TQLREGKEKCVHYWPTEETYGPFQIRIQDMKECPEYTVRQLTIQYQ EERRSVKHILFSAWPDHQTPE SAGPLLR LVAEVEESPETA AHPGPIVVHCSAGIGRTGCFIATRIGCQQL KARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS  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- <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:	<u><a href="#">NP_002823</a></u>
RefSeq Size:	3772
RefSeq ORF:	1197
Synonyms:	BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI
Locus ID:	5778



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UniProt ID: [P35236](#)

Cytogenetics: 1q32.1

**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 gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The non-catalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2010]

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** MAPK signaling pathway

### Product images:



Coomassie blue staining of purified PTPN7 protein (Cat# [TP300699]). The protein was produced from HEK293T cells transfected with PTPN7 cDNA clone (Cat# [RC200699]) using MegaTran 2.0 (Cat# [TT210002]).