

# 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 **HEK293 Expression Host:** RC200699 **Expression cDNA Clone** or AA Sequence: Predicted MW: 45 kDa >RC200699 representing NM\_002832 **Protein Sequence:** Red=Cloning site Green=Tags(s) MGASFWPIRQAREQQRRALSFRQTSWLSEPPLGPAPHLSMVQAHGGRSRAQPLTLSLGAAMTQPPPEKTP AKKHVRLQERRGSNVALMLDVRSLGAVEPICSVNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEF LKIPSNFVSPEDLDIPGHASKDRYKTILPNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVYIATQGP MPNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCVHYWPTEEETYGPFQIRIQDMKECPEYTVRQLTIQYQ EERRSVKHILFSAWPDHQTPESAGPLLRLVAEVEESPETAAHPGPIVVHCSAGIGRTGCFIATRIGCQQL KARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPSP 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- 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 002823 **RefSeq Size:** 3772 **RefSeq ORF:** 1197 BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI Synonyms: Locus ID: 5778



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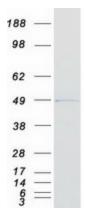
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	PTPN7 (NM_002832) Human Mass Spec Standard – PH300699
UniProt ID:	<u>P35236</u>
Cytogenetics:	1q32.1
Summary:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that 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 Pathway	s: 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]).

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