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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

PTPN7 (Human) Recombinant Protein (P01)

Catalog Number: H00005778-P01

Regulation Status: For research use only (RUO)

Product Description: Human PTPN7 full-length ORF (AAH01746, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MVQAHGGRSRAQPLTSLGAAMTQPPPEKTPAKKHV
RLQERRGSNVALMLDVRSLGAVEPICSVNTPREVTLH
FLRTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSP
EDLDIPGHASKDRYKILPNPQSRVCLGRAQSQEDGD
YINANYIRGYDGKEKVYIATQGMPMNTVSDFWEMVWQ
EEVSLIVMLTQLREGKEKCVHYWPTTEEETYGPFQIRIQ
DMKECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQT
PESAGPLLRVAEVEESPETAAHGPIVVHCSAGIGRT
GCFIATRIGCQQLKARGEVDILGIVCQLRLDRGGMIQT
AEQYQFLHHTLALYAGQLPEEPSP

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 65.23

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 5778

Gene Symbol: PTPN7

Gene Alias: BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI

Gene 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 noncatalytic 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. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

References:

1. Inhibitor of the Tyrosine Phosphatase STEP Reverses Cognitive Deficits in a Mouse Model of Alzheimer's Disease. Xu J, Chatterjee M, Baguley TD, Brouillette J, Kurup P, Ghosh D, Kanyo J, Zhang Y, Seyb K, Ononenyi C, Foscue E, Anderson GM, Gresack J, Cuny GD, Glicksman MA, Greengard P, Lam TT, Tautz L, Nairn AC, Ellman JA, Lombroso PJ PLoS Biol. 2014 Aug 5;12(8):e1001923. doi: 10.1371/journal.pbio.1001923. eCollection 2014 Aug.