

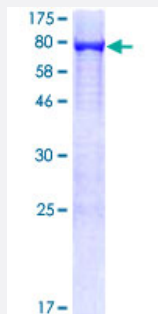
Full-Length

PTPN6 (Human) Recombinant Protein (P01)

Catalog # H00005777-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PTPN6 full-length ORF (AAH07667, 1 a.a. - 597 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLSRGWFHRLDLSGLDAETLLKGRGVHGSFLARPSRKNQGDFSLSVRVGDQVTHIRIQNSGDFYD
LYGGEKFATLTTELVEYYTQQQGV LQDRDGTIIHLKYPLNCSDPTSERWYHGHMSGGQAETLLQAK
GEPWTFLLVRESLSQPGDFVLSVLSQPKAGPGSPLRVTHIKVMCEGGRYTVGGLETDFSLTDLV
EHFKKTGIEEASGAFVYLRQPYATRVNAADIENRVLELNKKQSEDTAKAGFWEEFESLQKQEV
KNLHQRLEGQRPENKGNRYKNILPFDHSRVILQGRDSNIPGSDYNANYIKNQLLGPDENAKTYAS
QGCLEATVNDFWQMAWQENSRVIMTTREVEKGRNKCVPYWPEVGMQRAYGPYSVTNCGEHD
TTEYKLRTLQVSPLDNGDLIREMWHYQYLSWPDHGVSEPGGVLSFLDQINQRQESLPHAGPIIVHC
SAGIGRTGTIMIDMLMENISTKGLDCDIDIQKTIQMVRAQRSGMVQTEAQYKFYVAIAQFIETTKKKLE
VLQSQKGQSEYGNITYPPAMKNAHAKASRTSSKHKEDVYENLHTKNKREEKVKKQRSADKEKS
KGSLKRK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

91.19

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Phosphatase Assay (PTP)
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTPN6

Entrez GeneID	5777
GeneBank Accession#	BC007667
Protein Accession#	AAH07667
Gene Name	PTPN6
Gene Alias	HCP, HCPH, HPTP1C, PTP-1C, SH-PTP1, SHP-1, SHP-1L, SHP1
Gene Description	protein tyrosine phosphatase, non-receptor type 6
Omim ID	176883
Gene Ontology	Hyperlink

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. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]

Other Designations

hematopoietic cell phosphatase|hematopoietic cell protein-tyrosine phosphatase|protein-tyrosine phosphatase 1C

Pathway

- [Adherens junction](#)
- [B cell receptor signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Cerebral Amyloid Angiopathy](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Neuroblastoma](#)