



# Recombinant Human Tyrosine-protein phosphatase non-receptor type 18 (PTPN18)

<b>Product Code</b>	CSB-EP858731HU
<b>Abbreviation</b>	PTPN18
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q99952
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSRSLDSARS FLERLEARGG REGAVLAGEF SDIQACSAAW KADGVCSTVA GSRPENVRKN RYKDVLPYDQ TRVILSLLQE EGHSDYINGN FIRGVDGSLA YIATQGPLPH TLLDFWRLVW EFGVKVILMA CREIENGRKR CERYWAQEQE PLQTGLFCIT LIKEKWLNE IMLRTLKVTF QKESRSVYQL QYMSWPDRGV PSSPDHMLAM VEEARRLQGS GPEPLCVHCS AGCGRTGVLC TVDYVRQLLL TQMIPPDFSL FDVVLKMRKQ RPAAVQTEEQ YRFLYHTVAQ MFCSTLQNAS PHYQNIKENC APLYDDALFL RTPQALLAIP RPPGGVLRSI SVPGSPGHAM ADTYAVVQKR GAPAGAGSGT QTGTGTGTGA RSAEEAPLYS KVTTPRAQRPG AHAEDARGTL PGRVPADQSP AGSGAYEDVA GGAQTGGLGF NLRIGRPKGP RDPPAEWTRV
<b>Source</b>	E.coli
<b>Target Names</b>	PTPN18
<b>Protein Names</b>	Recommended name: Tyrosine-protein phosphatase non-receptor type 18 EC=3.1.3.48 Alternative name(s): Brain-derived phosphatase
<b>Expression Region</b>	1-460
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein 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, the mitotic cycle, and oncogenic transformation. This PTP contains a PEST motif, which often serves as a protein-protein interaction domain, and may be related to protein intracellular half-life. This protein can differentially dephosphorylate autophosphorylated tyrosine kinases that are overexpressed in tumor tissues, and it appears to regulate HER2, a member of the epidermal growth factor receptor family of



receptor tyrosine kinases. Two transcript variants encoding different isoforms have been found for this gene.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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