



# Recombinant Rat Tyrosine-protein phosphatase non-receptor type 11 (Ptpn11)

<b>Product Code</b>	CSB-MP019025RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P41499
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	TSRRWFHPN ITGVEAENLL LTRGVDGSFL ARPSKSNPGD FTLSVRRNGA VTHIKIQNTG DYYDLYGGEK FATLAELVQY YMEHHGQLKE KNGDVIELKY PLNCADPTSE RWFHGHLSGK EAEKLLTEKG KHGSFLVRES QSHPGDFVLS VRTGDDKGES NDSKSKVTHV MIRCQELKYD VGGGERFDSL TDLVEHYKKN PMVETLGTVL QLKQPLNTR INAAEIESRV RELSKLAETT DKVKQGFWE FETLQQQECK LLYSRKEGQR QENKNKNRYK NILPFDHTRV VLHDGDPNEP VSDYINANII MPEFETKCNN SKPKKSYIAT QGCLQNTVND FWRMV FQENS RVIVMTTKEV ERGKSKCVKY WPDECALKEY GVMRVRNVRE SAAHDYTLRE LKLSKVGQAL LQGNTERTVW QYHFRTWPDH GVPSPGGVL DFLEEVHHKQ ESIVDAGPVV VHCSAGIGRT GTFIVIDILI DIIREKGVDC DIDVPKTIQM VRSQRSGMVQ TEAQYRFIYM AVQHYIETLQ RRIEEEQKSK RKGHEYTNIK YSLVDQTS GD QSPLPPCTPT PPCAEMREDS ARVYENVGLM QQQRSFR
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Ptpn11
<b>Protein Names</b>	Recommended name: Tyrosine-protein phosphatase non-receptor type 11 EC=3.1.3.48 Alternative name(s): Protein-tyrosine phosphatase 1D Short name= PTP-1D Protein-tyrosine phosphatase SYP SH-PTP2 Short name= SHP-2 Sh
<b>Expression Region</b>	2-597
<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 of Mature 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, mitotic cycle, and oncogenic transformation. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of



Noonan syndrome as well as acute myeloid leukemia.

---

**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.

---

**Shelf Life**

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.