

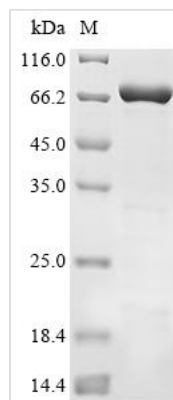


# Recombinant Human Tyrosine-protein phosphatase non-receptor type 11 (PTPN11) (T253M,Q257L)

<b>Product Code</b>	CSB-EP019025HU(A4)(M)
<b>Abbreviation</b>	Recombinant Human PTPN11 protein (T253M,Q257L)
<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>	Q06124
<b>Form</b>	Liquid or Lyophilized powder
<b>Storage Buffer</b>	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
<b>Product Type</b>	Recombinant Human Tyrosine-protein phosphatase non-receptor type 11(PTPN11)(T253M,Q257L)
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	TSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHI KIQNTGDYYDLYGGEKFATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADP TSERWFHGHLSGKEAEKLLTEKGKHGSFLVRESQSHPGDFVLSVRTGDDKGE SNDGKSKVTHVMIRCQELKYDVGGGERFDSLTDLVEHYKKNPMVETLGTVLQ LKQPLNTTRINAAEIESRVRELSKLAETTDKVKQGFWEFEMLQQLECKLLYSR KEGQRQENKNKNRYKNILPFDHTRVVLHDGDPNEPVSDYINANIIMPEFETKC NNSKPKKSYIATQGCLQNTVNDFWRMVFQENSRVIVMTTKEVERGKSKCVKY WPDEYALKEYGVMVRNVKESAAHDYTLRELKLSKVGQGNTERTVWQYHFR TWPDHGVPSDPGGVLDLFLEEVHHKQESIMDAGPVVVHCSAGIGRTGTFFIVIDIL IDIIREKGVDCDIDVPKTIQMVRSSQRSGMVQTEAQYRFIYMAVQHYIETLQRRIE EEQKSKRKGHEYTNIKYSLADQTSGDQSPLPPCTPTPPCAEMREDSARVYEN VGLMQQQKSFR
<b>Research Area</b>	Neuroscience
<b>Source</b>	E.coli
<b>Target Names</b>	PTPN11
<b>Expression Region</b>	2-593aa(T253M,Q257L)
<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>	N-terminal 6xHis-tagged



<b>Mol. Weight</b>	73.9 kDa
<b>Protein Length</b>	Full Length of Mature Protein

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Description**

In the E. coli expression system, the production process of the recombinant human Tyrosine-protein phosphatase non-receptor type 11 (PTPN11) (T253M, Q257L) tagged with an N-terminal 6xHis-tag involves several steps. The gene fragment encoding the full-length mature human PTPN11 protein (2-593aa), including the T253M and Q257L mutations, is cloned into a suitable expression vector. The vector is designed to incorporate an N-terminal 6xHis-tag downstream of the gene fragment, allowing for convenient purification and detection of the recombinant protein. The constructed recombinant plasmid is transformed into E. coli host cells and transformed cells are selected and cultured in a growth medium optimized for recombinant protein expression. Following an appropriate incubation period, the cells are harvested and lysed to release the intracellular contents, including the expressed recombinant PTPN11 protein. The purity of the purified recombinant PTPN11 protein is assessed using SDS-PAGE analysis, measuring up to 90%.

**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.