

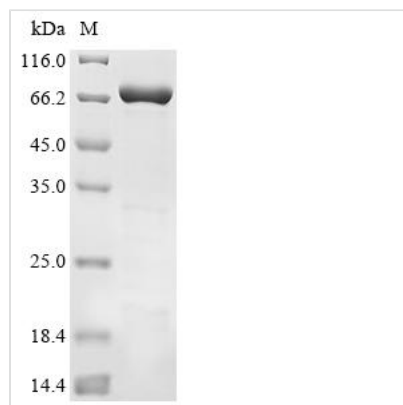


Recombinant Human Tyrosine-protein phosphatase non-receptor type 11 (PTPN11)

Product Code	CSB-EP019025HU(A4)
Abbreviation	Recombinant Human PTPN11 protein
Storage	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.
Uniprot No.	Q06124
Form	Liquid or Lyophilized powder
Storage Buffer	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.
Product Type	Recombinant Human Tyrosine-protein phosphatase non-receptor type 11(PTPN11)
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	TSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHI KIQNTGDYYDLYGGEKFATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADP TSERWFHGHLSGKEAEKLLTEKGKHGSFLVRESQSHPGDFVLSVRTGDDKGE SNDGKSKVTHVMIRCQELKYDVGGGERFDSLTDLVEHYKKNPMVETLGTVLQ LKQPLNTRINAAEIESRVRELSKLAETTDKVKQGFWEETFQQQECKLLYSR KEGQRQENKNKNRYKNILPFDHTRVVLHDGDPNEPVSDYINANIIMPEFETKC NNSKPKKSYIATQGCLQNTVNDFWRMVFQENSRVIVMTTKEVERGKSKCVKY WPDEYALKEYGVMRVRNVKESAAHDYTLRELKLSKVGQGNTERTVWQYHFR TWPDHGVPSDPGGVLDLFEEVHHKQESIMDAGPVVVHCSAGIGRTGTFFIVIDIL IDIIREKGVDCIDVPKTIQMVRSSQSGMVQTEAQYRFIYMAVQHYIETLQRRIE EEQKSKRKGHEYTNIKYSLADQTSQDQSPLPPCTPTPPCAEMREDSARVYEN VGLMQQKQKFSR
Research Area	Neuroscience
Source	E.coli
Target Names	PTPN11
Expression Region	2-593aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	72.0 kDa
Protein Length	Full Length of Mature Protein



Image



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

Description

Within the *E. coli* expression system, the recombinant human tyrosine-protein phosphatase non-receptor type 11 (PTPN11) is synthesized through the incorporation of the gene fragment encoding the full-length mature PTPN11 protein (2-593aa) into a suitable expression vector. This vector is strategically designed to include an N-terminal 6xHis-tag downstream of the gene fragment, facilitating the convenient purification and detection of the recombinant protein. After introducing the recombinant plasmid into *E. coli* host cells and performing selection using appropriate markers, the transformed cells are cultured in a growth medium optimized for optimal protein expression. To initiate recombinant protein production, IPTG is added as an inducer, thereby inducing the expression of recombinant PTPN11 protein. Following a suitable incubation period, the cells are harvested and subjected to lysis, liberating the intracellular contents containing the expressed recombinant PTPN11 protein. The subsequent purification process is employed to isolate the recombinant protein, which exhibits a remarkable purity level of up to 90% as evaluated through SDS-PAGE analysis.

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.