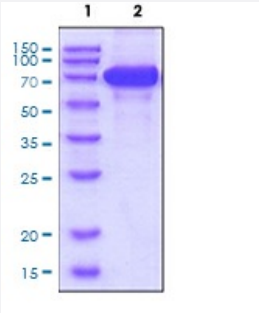
Bioactive Full-Length

PTPN11 (Human) Recombinant Protein

Catalog # P8073 Size 100 ug

Applications



Specification

Product Description	Human PTPN11 (Q06124, 1 a.a. - 593 a.a.) full length recombinant protein His tag expressed in Baculovirus expression system.
Sequence	MTSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQNTGDYYDLY GGEKFATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERWFHGHLSGKEAEKLLTEKG KHGSFLVRESQSHPGDFVLSVRTGDDKGESNDGKSKVTHVMIRCQELKYDVGGGERFDSLTDL VEHYKKNPMVETLGTVLQLKQPLNTTRINAAEIESRVRELSKLAETTDKVKQGFWEEFETLQQQE CKLLYSRKEGQRQENKNKNRYKNILPFDHTRVVLHDGDPNEPVSDYINANIIMPEFETKCNNSKPK KSYIATQGCLQNTVNDFWRMVFQENSRVIVMTTKEVERGKSKCVKYWPDEYALKEYGVMRVRNV KESAAHDYTLRELKLSKVGQGNTERTVWQYHFRTWPDHGVPSDPGGVLDFLEEVHHKQESIMD AGPVVVHCSAGIGRTGTFIVIDILIDIIREKGVDCDIDVPKTIQMVRSQRSGMVQTEAQYRFIYMAVQH YIETLQRRIEEEQKSKRKGHEYTNIKYSLADQTSGDQSPLPPCTPTPPCAEMREDSARVYENVGLM QQQKSFR
Host	Viruses
Theoretical MW (kDa)	69.0999999999998
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE

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Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	Specific activity is > 5 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PTPN11

Entrez GeneID	5781
Protein Accession#	Q06124
Gene Name	PTPN11
Gene Alias	BPTP3, CFC, MGC14433, NS1, PTP-1D, PTP2C, SH-PTP2, SH-PTP3, SHP2
Gene Description	protein tyrosine phosphatase, non-receptor type 11
Omim ID	151100 163950 176876 607785
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 c ell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tand em Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate t he interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and pl ays a regulatory role in various cell signaling events that are important for a diversity of cell functio ns, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mu tations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provide d by RefSeq
Other Designations	protein tyrosine phosphatase-2|protein-tyrosine phosphatase 2C

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Pathway

- Adipocytokine signaling pathway
- Chronic myeloid leukemia
- Epithelial cell signaling in Helicobacter pylori infection
- Jak-STAT signaling pathway
- Leukocyte transendothelial migration
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Renal cell carcinoma

Disease

- Abnormalities
- Addison Disease
- Adenocarcinoma
- Arrhythmias
- Articulation Disorders
- Atrophy
- Cardiovascular Diseases
- Celiac Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Cognition Disorders
- Colitis
- Craniofacial Abnormalities

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- Crohn Disease
- Developmental Disabilities
- Disease Progression
- Down Syndrome
- Ductus Arteriosus
- Dyslexia
- Ectodermal Dysplasia
- Esophageal Neoplasms
- Gastritis
- Genetic Predisposition to Disease
- Glioma
- Growth Disorders
- Hearing
- Hearing Loss
- Heart Defects
- Heart Septal Defects
- Helicobacter Infections
- Hematologic Diseases
- Hypertrophy
- Infant
- Language Disorders
- LEOPARD Syndrome
- Leukemia
- Lymphedema
- Memory
- Metaplasia

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- Mitochondrial Diseases
- Motor Skills
- Motor Skills Disorders
- Myeloproliferative Disorders
- Neurofibromatoses
- Neurofibromatosis
- Neurofibromatosis 1
- Neuropsychological Tests
- Noonan Syndrome
- Obesity
- Ovarian Failure
- Pancreatic cancer
- Pancreatic Neoplasms
- Peptic Ulcer
- Polycystic Ovary Syndrome
- Puberty
- Pulmonary Valve Stenosis
- Skin Abnormalities
- Stomach Neoplasms
- Syndrome
- Thrombophilia
- Tobacco Use Disorder

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