

Recombinant Human PPP1CB Protein (2-327 aa), His-tagged

Cat. No. PPP1CB-2170H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPP1CB Protein (2-327 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length of Mature Protein.
Species	Human
Source	E.coli
ProteinLength	2-327 aa
Description	Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase (PP1) is essential for cell division, it participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E. Dephosphorylates the 'Ser-418' residue of FOXP3 in regulatory T-cells (Treg) from patients with rheumatoid arthritis, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208).

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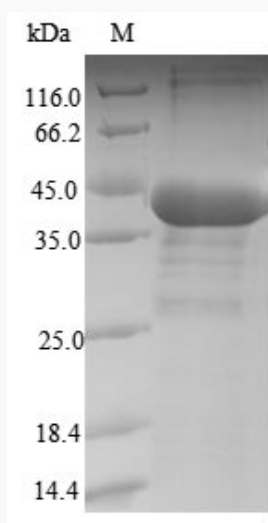
Form	Tris-based buffer,50% glycerol
Molecular Mass	41.1 kDa
AA Sequence	ADGELNVDSLITRLLEVRGCRPGKIVQMTEAEVRGLCIKSREIFLSQPILLELEAPLKIC GDIHGQYTDLLRLFYGGFPPEANYLFLGDYVDRGKQSLETICLLLAYKIKYPENFFLL RGNHECASINRIYGFYDECKRRFNKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDL QSMEQIRRIMRPTDVPDPTGLLCDLLWSDPKDKVQGWGENDRGVSFTFGADVVSFKF LNRHDLDLICRAHQVVEDGYEFFAKRQLVTLSAPNYCGEFDNAGGMMSVDETLMC SFQILKPSEKKAKYQYGGLNSGRPVTPPRTANPPKKR
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.
GENE INFORMATION	
Gene Name	PPP1CB protein phosphatase 1, catalytic subunit, beta isozyme [Homo sapiens]
Official Symbol	PPP1CB
Synonyms	PPP1CB; PP 1B; PP1beta; PP-1B; PPP1CD; MGC3672;

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Gene ID	5500
mRNA Refseq	NM_002709
Protein Refseq	NP_002700
MIM	600590
UniProt ID	P62140



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