

Active Recombinant Human PPP1CB, GST-tagged

Cat. No. PPP1CB-1515H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PP1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-327 a.a.
Description	The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have been observed.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	272nmol/min/mg
Molecular Mass	~60 kDa
Purity	>70%

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Applications	Phosphatase Assay, Western Blot
Stability	1 yr at -70°C from date of shipment.
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	PPP1CB protein phosphatase 1, catalytic subunit, beta isozyme [Homo sapiens (human)]
Official Symbol	PPP1CB
Synonyms	PPP1CB; protein phosphatase 1, catalytic subunit, beta isozyme; protein phosphatase 1, catalytic subunit, beta isoform; serine/threonine-protein phosphatase PP1-beta catalytic subunit; PP 1B; PP1beta; protein phosphatase 1-beta; protein phosphatase 1-delta; protein phosphatase 1, catalytic subunit, delta isoform; serine/threonine protein phosphatase PP1-beta catalytic subunit; PP-1B; PPP1CD; MGC3672
Gene ID	5500
mRNA Refseq	NM_002709
Protein Refseq	NP_002700
MIM	600590

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UniProt ID	P62140
Chromosome Location	2p23
Pathway	Adrenergic signaling in cardiomyocytes; Amphetamine addiction; Downregulation of TGF-beta receptor signaling
Function	metal ion binding; myosin phosphatase activity; myosin-light-chain-phosphatase activity

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