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32-6894: PPP1CC Human, Active

Application :	Functional Assay
Alternative Name :	Protein phosphatase 1 catalytic subunit gamma isozyme/isoform, Protein phosphatase 1C catalytic subunit, serine/threonine phosphatase 1 gamma, serine/threonine-protein phosphatase PP1-gamma catalytic subunit, PP1gamma, PPP1G, EC 3.1.3.16.

Description

Source: Escherichia Coli.
Sterile Filtered clear solution.
PPP1CC is vital for cell division and takes part in the regulation of protein synthesis, muscle contractility and glycogen metabolism. Additionally, PPP1CC has a role in long-term synaptic plasticity and regulation of ionic conductance, and has a significant role in dephosphorylating substrates such as the postsynaptic density-associated Ca2+/calmodulin dependent protein kinase II.
PPP1CC produced in E.Coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (1-323a.a.) and having a molecular mass of 39.1kDa.PPP1CC is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	The PPP1CC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 50% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MADLDKLNID SIIQRLLEVR GSKPGKNVQL QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFEYGG FPPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRIM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND RGVSFTFGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE KKKPNATRPV TPPRGMITKQ AKK.

Application Note

Specific activity is > 700 units/mg, and is defined as the amount of enzyme that hydrolyzes 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37Ã□Â°C.

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