
Product Data Sheet

Product Name: PPP1CC Human

Cat. No.: GP22140

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms 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.

Amino Acid Sequence
 MGSSHHHHH SSGLVPRGSH MADLDKLNID SIIQRLLVVR GSKPGKNVQL
 QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFYGG
 FPPESNYFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI
 NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL
 QSMEQIRRM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND RGVSTFTGAE
 VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG
 AMMSVDETLM CSFQILKPAE KKKPNATRPV TPRGMITKQ AKK.

Formulation The PPP1CC solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 50% glycerol.

Introduction

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.

Stability

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

PPP1CC Human Recombinant produced in E. coli is a single polypeptide chain containing 343 amino acids (1-323) 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.

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