

Recombinant human PPP1CC protein

Catalog Number: ATGP1551

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-323aa

UniProt No.

P36873

NCBI Accession No.

NP_002701

Alternative Names

Serine/threonine-protein phosphatase PP1-gamma catalytic subunit, PP1gamma, PPP1G

PRODUCT SPECIFICATION

Molecular Weight

39.1 kDa (343aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.2M NaCl, 2mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PPP1CC, also known as serine/threonine-protein phosphatase PP1-gamma catalytic subunit, is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. This protein is involved in regulation of ionic conductances and long-term synaptic plasticity and may play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca²⁺/calmodulin dependent protein kinase II. Recombinant human PPP1CC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MADLDKLNID SIIQRLLEVR GSKPGKNVQL QENEIRGLCL KSREIFLSQP ILLELEAPLK
ICGDIHGQYY DLLRLFYGG FPPESNYFL GDYVDRGKQS LETICLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC
KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRIM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND
RGVSFTFGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE
KKKPNATRPV TPRGRMITKQ AKK

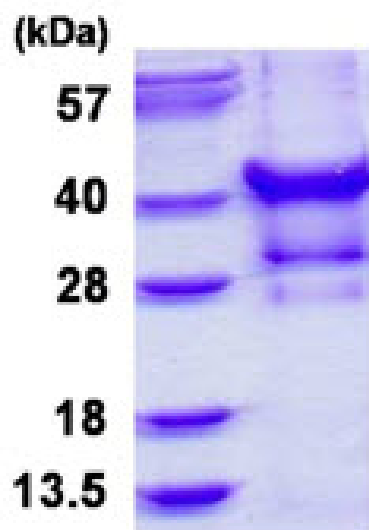
General References

Egloff M.-P., et al. (1995) J. Mol. Biol. 254:942-959

Choudhary C., et al. (2009) Science. 325:834-840

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)