NKMAXBio We support you, we believe in your research

Recombinant human PP1 gamma/PPP1CC protein

Catalog Number: ATGP3561

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, PP-1G, Protein phosphatase 1 catalytic subunit gamma, PP1C, Protein phosphatase 1C catalytic subunit

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

Biological Activity

Specific activity is > 700unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of pnitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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.



NKMAXBio We support you, we believe in your research

Recombinant human PP1 gamma/PPP1CC protein

Catalog Number: ATGP3561

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.

Amino acid Sequence

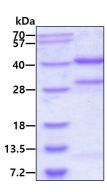
<MGSSHHHHHH SSGLVPRGSH> MADLDKLNID SIIQRLLEVR GSKPGKNVQL QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFEYGG FPPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRIM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND RGVSFTFGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE KKKPNATRPV TPPRGMITKQ AKK

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

