

PPP1CA, 1-330aa, Human, His tag, E.coli

Cat.NO.: TP03499

3th Edition

Synonyms: Serine/threonine-protein phosphatase PP1-alpha catalytic subunit, PP-1A, PP1alpha, PPP1A.

Description: PPP1CA, also known as serine/threonine-protein phosphatase PP1-alpha catalytic subunit, is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. This protein may play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca²⁺/calmodulin dependent protein kinase II. Recombinant human PPP1CA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. 50mM Tris-HCl (pH8.5), 0.2M NaCl, 1mM DTT, 0.1mM PMSF, 1mM MnCl₂, 50% glycerol.

Molecular Weight: 39.7 kDa (350aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSDSEKLNLDISIIGRLLEVQGSRPVKVQLTENEIRGLCLKSREIFLSQPILLELEA
PLKICGDIHGQYYDLLRLFYGGFPPESNYLFLGDYVDRGKQSLETICLLLAYKIKYPENFFLLRGNHECASINRIYGF
YDECKRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRIRMRPTDVPDQGLLCDLLWSDPKDV
QGWGENDRGVSFTFGAEVVAKFLHKHDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGAMMSVDE
TLMCSFQILKPADKNKGKYGQFSGLNPGGRPITPPRNSAKAKK

Purity: > 95% by HPLC

Concentration: 0.2 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.