

Recombinant Human PPP1R16A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PPP1R16A-4170H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PPP1R16A MS Standard C13 and N15-labeled recombinant protein (NP_116291) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Myosin light chain kinase and phosphatase (MLCP) complexes control the phosphorylation states of regulatory myosin light chains, which is crucial for muscle and intracellular movement. MLCPs typically contain a catalytic protein phosphatase 1 (PP1c) subunit, a myosin phosphatase targeting (MYPT) subunit, and another smaller subunit. The protein encoded by this gene represents an MYPT subunit, which is responsible for directing PP1c to its intended targets. However, while the phosphorylation of other MYPT members results in PP1c inactivation, phosphorylation of the encoded protein by protein kinase A results in PP1c activation.
Molecular Mass	57.6 kDa
AA Sequence	MAEHLELLAEMPMVGRMSTQERLKHAQKRRAQQVKMWAQAEKEAQGKKGPGER PRKEAASQGLLKQVLFPPSVVLEAAARNDL EEVRQFLGSGVSPDLANEDGLTALH QCCIDDFREM VQQLLEAGANINACDSECWTP LHAAATCGHLHLVELLIASGANLLAV NTDGNMPYDLCDDEQTLDCLETAMADRGITQDSIEAARAVPELRLMLDDIRSRLQAG ADLHAPLDHGATLLHVAAANGFSEAAALLLEHRASLSAKDQDGWEPLHAAAYWGQ

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VPLVELLVAHGADLNAKSLMDETPLDVCGDDEEVRAKLLELKHKHDALLRAQSRQRSL
LRRRTSSAGSRGKVVRVSLTQRTDLYRKQHAQEAIWQQPPPTSPEPPEDNDDR
QTGAELRPPPEEDNPEVVRPHNGRVGGSPVRHLYSKRLDRSVSYQLSPLDSTTP
HTLVHDKAHTLADLKRQRAAAKLQRPPEGPESPETAEPGLPGDTVTPQPDGFR
AGGDPPLLKLTAPAVEAPVERRPCCLLMTRTRPLEQKLISEEDLAANDILDYKDDDD
KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PPP1R16A protein phosphatase 1 regulatory subunit 16A [Homo sapiens (human)]

Official Symbol PPP1R16A

Synonyms PPP1R16A; protein phosphatase 1, regulatory subunit 16A; protein phosphatase 1, regulatory (inhibitor) subunit 16A; protein phosphatase 1 regulatory subunit 16A; MGC14333; MYPT3; myosin phosphatase-targeting subunit 3; likely ortholog of mouse myosin phosphatase targeting subunit 3;

Gene ID 84988

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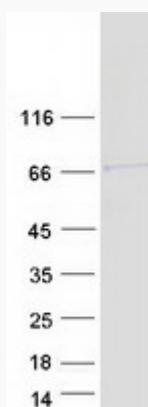
mRNA Refseq [NM_032902](#)

Protein Refseq [NP_116291](#)

MIM [609172](#)

UniProt ID [Q96I34](#)

SDS-PAGE



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