

Recombinant Full Length Human PPP2R1A protein, His-tagged

Cat. No. PPP2R1A-43H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPP2R1A, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-589 a.a.
Description	PPP2R1A also known as Serine/Threonine-Protein Phosphatase 2A 65 kDa regulatory subunit A alpha isoform, is a member of the PPP family of phosphatases, regulates a variety of essential cellular processes. PPP2R1A phosphorylation is an in vivo mechanism for regulation of the PP2A signaling complex and increased PP2A activity in heart failure.
Form	Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol
Molecular Mass	67.7kDa (612aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMAAADGD DSLYPIAVLI DELRNEDVQL RLNSIKKLST IALALGVERT RSELLPFLTD TIYDEDEVLLALAEQLGTFT TLVGGPEYVH CLLPPLES LA TVEETVVRDK AVESLRAISH EHSPSDLEAH FVPLVKRLAG GDWFTSRTSA CGLFSVCYPRVSSAVKAELR QYFRNLCSDD TPMVRRAAAS KLGEFAKVLE LDNVKSEIIP MFSNLASDEQ DSVRLLAVEA CVNIAQLLPQ EDLEALVMPTLRQAEDKSW RVRVMVADKF TELQKAVGPE

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ITKTDLVPAF QNLMKDCEAE VRAAASHKVK EFCENLSADC RENVIMSQIL
 PCIKELVSDANQHVKSALAS VIMGLSPILG KDNTIEHLLP LFLAQLKDEC
 PEVRLNIISN LDCVNEVIGI RQLSQSLLPA IVELAEDAKW
 RVRLAIIIEYMPLLAGQLGVE FFDEKLNSLC MAWLVDHVYA IREAATSNLK
 KLVEKFGKEW AHATIIPKVL AMSGDPNYLH RMTTLFCINV
 LSEVCGQDITTKHMLPTVLR MAGDPVANVR FNVAKSLQKI GPILDNSTLQ
 SEVKPILEKL TQDQDQVDVKY FAQEALTVLS LA

Purity >90% by SDS - PAGE

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

Concentration 1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name PPP2R1A protein phosphatase 2, regulatory subunit A, alpha [Homo sapiens]

Official Symbol PPP2R1A

Synonyms PPP2R1A; protein phosphatase 2, regulatory subunit A, alpha; protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform , protein phosphatase 2 (formerly 2A), regulatory subunit A, alpha isoform; serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform; PP2A Aalpha; PR65A; protein phosphatase 2; 65kDa regulatory subunit A; protein phosphatase 2A; regulatory subunit A; alpha isoform; PP2A subunit A isoform R1-alpha; PP2A subunit A isoform PR65-alpha; medium tumor antigen-associated 61 KDA protein; protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform;

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	serine/threonine protein phosphatase 2A, 65 kDa regulatory subunit A, alpha isoform; PP2AAALPHA; MGC786; PP2A-Aalpha;
Gene ID	5518
mRNA Refseq	NM_014225
Protein Refseq	NP_055040
MIM	605983
UniProt ID	P30153
Chromosome Location	19q13
Pathway	Activated TLR4 signalling, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Beta-catenin phosphorylation cascade, organism-specific biosystem; CTLA4 inhibitory signaling, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	antigen binding; protein binding; protein heterodimerization activity; protein phosphatase type 2A regulator activity; protein serine/threonine phosphatase activity;