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**Product Data Sheet**


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Product Name: PPP2R1A Human  
 Cat. No.: GP22146  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

**Synonyms** PPP2R1A; Protein Phosphatase 2; Regulatory Subunit A; Alpha; Protein Phosphatase 2(Formerly 2A); Regulatory Subunit A (PR 65); Alpha Isoform; PP2A Subunit Alsoform PR65-Alpha; PP2A Subunit A Isoform R1-Alpha; Serine/Threonine ProteinPhosphatase 2A; 65 KDa Regulatory Subunit A; Alpha Isoform; Serine/Threonine-ProteinPhosphatase 2A; 65 KDa Regulatory Subunit A Alpha Isoform; Protein Phosphatase2 (Formerly 2A); Regulatory Subunit A; Alpha Isoform; Medium TumorAntigen-Associated 61 KDa Protein; Medium Tumor Antigen-Associated 61 KDaProtein; 65kDa Regulatory Subunit A; Protein Phosphatase 2A; ProteinPhosphatase 2; Regulatory Subunit A; Alpha Isoform; PP2A-Aalpha; PP2AAALPHA; PR65A.

**Amino Acid Sequence** MGSSHHHHHH SGLVPRGSH MGSMAAADGD DSLYPIAVLI DELRNEDVQL RLNSIKKLLST IALALGVERT RSELLPFLTD TIYDEDEVLL ALAEQLGTFT TLVGGPEYVH CLLPPLESLA TVEETVVRDK AVESLRAISH EHSPSDLEAH FVPLVKRLAG GDWFTSRTSA CGLFSVCYPR VSSAVKAELR QYFRNLCSDD TPMVRRAAAS KLGEFAKVLE LDNVKSEIIP MFSNLASDEQ DSVRLlavea CVNIAQLLPQ EDLEALVMPT LRQAAEDKSW RVRVMVADKF TELQKAVGPE ITKTDLVPaf QNLMKDCEAE VRAAASHKVK EFCENLSADC RENVIMSQIL PCIKELVSDA

**Formulation** PPP2R1A protein solution (1mg/ml) containing PhosphateBuffered Saline (pH7.4) and 10% glycerol.

**Introduction**

Protein Phosphatase 2, Regulatory Subunit AAlpha, also known as PPP2R1A is part of the PPP family of phosphatases, which regulates a diversity of vital cellular processes.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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PPP2R1A subunit, PR65, functions as a scaffolding molecule which coordinates the assembly of the catalytic subunit and a variable regulatory B subunit. PPP2R1A is essential for proper chromosome segregation as well as for centromeric localization of SGOL1 in mitosis. Furthermore, PPP2R1A phosphorylation is an *in vivo* mechanism which regulates the PP2A signaling complex as well as increasing the PP2A activity in heart failure.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PPP2R1A Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 612 amino acids (1-589 a.a) and having a molecular mass of 67.7 kDa. PPP2R1A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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