# Recombinant Bovine PRKAR1A

**Cat. No.** PRKAR1A-610B **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Bovine PRKAR1A is produced in*E. coli.*MW=43kDa. |
| **Species** | Bovine |
| **Source** | E.coli |
| **Description** | cAMP-dependent protein kinase type I-alpha regulatory subunit is an enzyme that in humans is encoded by the PRKAR1A gene. cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase A (PKA), which transduces the signal through phosphorylation of different target proteins. The inactive holoenzyme of PKA is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits of PKA have been identified in humans. |
| **Purity** | ≥95% (SDS-PAGE). |
| **Formulation** | Liquid. In 10mM potassium phosphate, pH 6.8, containing 150mM NaCl, 14mM 2-mercaptoethanol, 1mM EDTA and 50% glycerol. |
| **Storage And Stability** | -80°C. Keep the glycerol stock solution of the enzyme permanently at -20°C while pipetting to avoid loss of inhibitory activity. Avoid freeze/thaw cycles. |

## GENE INFORMATION

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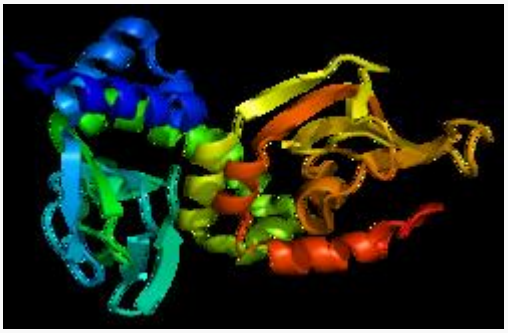
| **Gene Name** | PRKAR1A protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1) [ Bos taurus ] |
| **Synonyms** | PRKAR1A; protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1); cAMP-dependent protein kinase, regulatory subunit alpha 1; cAMP-dependent protein kinase type I-alpha regulatory subunit; EC 2.7.11.1 |
| **Gene ID** | 615074 |
| **mRNA Refseq** | NM_001076358 |
| **Protein Refseq** | NP_001069826 |
| **UniProt ID** | P00514 |
| **Chromosome Location** | 19 |
| **Pathway** | Apoptosis; Insulin signaling pathway |
| **Function** | cAMP binding; cAMP-dependent protein kinase regulator activity; kinase activity; nucleotide binding; protein binding |
| **PDB rendering based on 1ne4.** |  |

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