

Recombinant Bovine PRKAR1A

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

SPECIFICATION

Product Overview	Recombinant Bovine PRKAR1A is produced in <i>E. coli</i> . 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

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