

c-AMP dependant Protein Kinase A regulatory subunit-1 alpha Recombinant Protein | PRKA1RA recombinant protein

Recombinant c-AMP dependant Protein Kinase A regulatory subunit-1 alpha

CATALOG # AAA38383	HOST E Coli
------------------------------	-----------------------

PRODUCT SYNONYMS

c-AMP dependant Protein Kinase A regulatory subunit-1 alpha; Recombinant c-AMP dependant Protein Kinase A regulatory subunit-1 alpha; PRKAR1A; cAMP-Dependent Protein Kinase A regulatory subunit I a Recombinant; cAMP-dependent protein kinase type I-alpha regulatory subunit; Tissue-specific extinguisher 1; TSE1; CAR; CNC; CNC1; PKR1; PPNAD1; PRKAR1; MGC17251; DKFZp779L0468; PRKA1RA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	PKA regulatory subunit I a is supplied in 50% glycerol.
Sequence Length	381
Unit Defenition	Specifically inhibits PKA catalytic subunit (Ki about 0.1nM). Activity can be restored by adding cAMP (Kact about 100nM). The binding of the catalytic subunit is dependent on the presence of ATP and Mg.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PRKA1RA recombinant protein	Description: cAMP-dependent PKA is an ubiquitous serine/threonine protein kinase present in a variety of tissues (e.g. brain, skeletal muscle, heart). The intracellular cAMP level regulates cellular responses by altering the interaction between the catatytic C and regulatory R subunits of PKA. The inactive tetrameric PKA holoenzyme R2C2 is activated when cAMP binds to R2, which dissociates the tetramer to R2 cAMP 4 and two active catalytic subunits. Free Catalytic subunits of PKA can phosphorylate a wide variety of intracellular target proteins. In response to hormone- induced high cAMP levels, PKA phosphorylates glycogen synthetase (inhibition of the enzyme activity) and phosphorylase kinase to block glycogen synthesis. Different isoforms of catalytic and regulatory subunits suggest specific functions. The recombinant PKA regulatory subunit I a is a dimeric 90kDa protein.
Product Categories/Family for PRKA1RA recombinant protein	Protein Kinases ; Enzymes ; Protein Kinase-A

NCBI AND UNIPROT INFORMATION

NCBI GI #	443497964
NCBI GeneID	5573
NCBI Accession #	NP_001263218.1
NCBI GenBank Nucleotide #	NM_001276289.1
UniProt Accession #	P10644 ; Q567S7 ; K7ER48
Molecular Weight	38,003 Da

NCBI Official Full Name	cAMP-dependent protein kinase type I-alpha regulatory subunit isoform a
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type I, alpha
NCBI Official Symbol	PRKAR1A
NCBI Official Synonym Symbols	CAR; CNC; CNC1; PKR1; TSE1; ADOHR; PPNAD1; PRKAR1; ACRDYS1
NCBI Protein Information	cAMP-dependent protein kinase type I-alpha regulatory subunit; Carney complex type 1; cAMP-dependent protein kinase regulatory subunit R1alpha; cAMP-dependent protein kinase type I-alpha regulatory chain; protein kinase A type 1a regulatory subunit; tissue-specific extinguisher 1
UniProt Protein Name	cAMP-dependent protein kinase type I-alpha regulatory subunit
UniProt Gene Name	PRKAR1A
UniProt Synonym Gene Names	PKR1; PRKAR1; TSE1; TSE1
UniProt Entry Name	KAP0_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/prkar1a-recombinant-protein-e-coli/38383>