

## 32-3088: PKAr-1a Recombinant Protein

**Alternative Name :** cAMP-Dependent Protein Kinase A regulatory subunit-II A,PKA-RII alpha.

### Description

Source : Escherichia Coli. The recombinant PKA regulatory subunit II-a is a dimeric 90 kDa protein. Protein Kinase A is purified by proprietary chromatographic techniques. cAMP-dependent PKA is a 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 catalytic 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.

### Product Info

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| <b>Amount :</b>            | 3 µg   |
| <b>Purification :</b>      | Greater than 95% as determined by SDS-PAGE.  |
| <b>Content :</b>           | PKA regulatory subunit-II alpha is supplied at a concentration of 0.37mg/ml in 20mM MES, 150mM NaCl, 2mM EDTA, 2mM EGTA, 1mM BME and 50% glycerol.   |
| <b>Storage condition :</b> | PKA should be stored at 4°C if entire vial will be used within 1 week. For long term storage below -20°C.Avoid multiple freeze-thaw cycles.  |
| <b>Amino Acid :</b>        | MSHIQIPPGL TELLQGYTVE VLRQQPPDLV EFAVEYFTRL REARAPASVL PAATPRQSLG HPPPEPGPDR<br>VADAKGDSSES EEDEDLEVPV PSRFNRRVSV CAETYNPDEE EEDTDPRVIH PKTDEQRCRL QEACKDILLF<br>KNLDQEQLSQ VLDAMFERIV KADEHVIDQG DDGDNFYVIE RGTYDILVTK DNQTRSVGQY DNRGSFGELA<br>LMYNTPRAAT IVATSEGLW GLDRVTFRRI IVKNNAKKRK MFESFIESVP LLKSLEVSEK MKIVDVIGEK<br>IYKDGRIIT QGEKADSFYI IESGEVSILI RSRTKSNKDG GNQEVEIARC HKGQYFGELA LVTNKPRAAS<br>AYAVGDVKCL VMDVQAFERL LGPCMDIMKR NISHYEEQLV KMFSSVDLG NLGQ. |

