# Aurora Kinase A (AURKA) Bovine Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Aurora kinase A (AURKA), Recombinant Protein |
| **Full Product Name** | Recombinant Bovine Aurora kinase A (AURKA) |
| **Product Gene Name** | AURKA recombinant protein |
| **Product Synonym Gene Name** | AURKA |
| **Sequence** | MDRCKENCIS GPKTAVPLSD GPKRVPVAQQ FPSQNPVSVN SGQAQRVLCP TNSSQRVPSQ AQKLVSIQKP VQTLKQKPPQ AASAPRPVTR PPSNTQKSKQ PQPPAPGNNP EKEVASKQKN EESKKRQWAL EDFEIGRPLG KGKFGNVYLA REKQSKFILA LKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLYGYF HDATRVYLIL EYAPLGAVYR ELQKLSKFDE QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLLGSAGEL KIADFGWSVH APSSRRTTLC GTLDYLPPEM IEGRMHDEKV DLWSLGVLCY EFLVGKPPFE ADTYQETYRR ISRVEFTFPD CVPEGARDLI SRLLKHNPSQ RPTLKEVLEH PWIIANSKPS SCQKKESTSK QS |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 45,462 Da |
| **Sequence Positions** | 1-402, full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q2TA06 |
| **Species** | Bovine |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for AURKA recombinant protein** | This protein is a cell cycle-regulated kinase that appears to be involved in microtubule formation and or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the same protein have been found for this gene. |
| **Other Notes** | Small volumes of AURKA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for AURKA purchase** | MBS1337631 is a recombinant protein targeting AURKA. Also known as Recombinant Bovine Aurora kinase A (AURKA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AURKA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 84000031 |
| **NCBI GeneID** | 504437 |
| **NCBI Accession #** | NP_001033117.1 |
| **UniProt Primary Accession #** | Q2TA06 |
| **UniProt Related Accession #** | Q2TA06 |
| **GenBank Nucleotide #** | NM_001038028.1 |
| **NCBI Official Full Name** | aurora kinase A |
| **NCBI Official Synonym Full Names** | aurora kinase A |
| **NCBI Official Symbol** | AURKA |
| **NCBI Official Synonym Symbols** | ARK-1 |
| **UniProt Protein Name** | Aurora kinase A |
| **UniProt Synonym Protein Names** | Aurora 2; Aurora/IPL1-related kinase 1; ARK-1; Aurora-related kinase 1; Serine/threonine-protein kinase 15; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase aurora-A |
| **Protein Family** | Aurora kinase |
| **UniProt Gene Name** | AURKA |
| **UniProt Synonym Gene Names** | AIK; AIRK1; ARK1; AURA; AYK1; BTAK; IAK1; STK15; STK6; ARK-1; Aurora-related kinase 1 |
| **NCBI Protein Information** | aurora kinase A |
| **UniProt Comments for AURKA** | Mitotic serine/threonine kinases that contributes to the regulation of cell cycle progression. Associates with the centrosome and the spindle microtubules during mitosis and plays a critical role in various mitotic events including the establishment of mitotic spindle, centrosome duplication, centrosome separation as well as maturation, chromosomal alignment, spindle assembly checkpoint, and cytokinesis. Required for initial activation of CDK1 at centrosomes. Phosphorylates numerous target proteins, including ARHGEF2, BORA, BRCA1, CDC25B, DLGP5, HDAC6, KIF2A, LATS2, NDEL1, PARD3, PPP1R2, PLK1, RASSF1, TACC3, p53/TP53 and TPX2. Regulates KIF2A tubulin depolymerase activity. Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization. Also acts as a key regulatory component of the p53/TP53 pathway, and particularly the checkpoint-response pathways critical for oncogenic transformation of cells, by phosphorylating and stabilizing p53/TP53. Phosphorylates its own inhibitors, the protein phosphatase type 1 (PP1) isoforms, to inhibit their activity (). Necessary for proper cilia disassembly prior to mitosis (). Interacts with SIRT2 (). |
| **Research Articles on AURKA** | **1.** Aurora A was the most abundant form in oocytes, both at mRNA and protein levels, in bovine oocytes during meiotic maturation. |
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