

# Recombinant Human Aurora Kinase A, His-tagged

**Cat. No.** AURKA-106H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b>    | Recombinant human Aurora-A fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW =47.9 kDa (423aa).                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>         | Aurora Kinase A is a member of a family of mitotic serine/threonine kinases. It is implicated with important processes during mitosis and meiosis whose proper function is integral for healthy cell proliferation. Aurora kinase A is highly expressed in testis and weakly in skeletal muscle, thymus and spleen. Also this protein plays a crucial role in tumourigenesis and is overexpressed in many kinds of cancers.                                                                               |
| <b>Amino Acid Sequence</b> | MGSSHHHHHH SSGLVPRGSH MDRSKENCIS GPVKATAPVG GPKRVLVTQQ<br>FPCQNPLPVN SGQAQRVLCF SNSSQRIPLQ AQKLVSHPK VQNQKQKQLQ<br>ATSVPHPVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL<br>EDFEIGRPLG KGKFGNVYLA REKQSKFILA LKVLFKAQLE KAGVEHQLRR<br>EVEIQSHLRH PNILRLGYF HDATRVYLIL EYAPLGTVYR ELQKLSKFDE<br>QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLLGSAGEL KIADFGWSVH<br>APSSRRTTLC GTLDYLPPPEM IEGRMHDEKV DLWSLGVLGY EFLVGKPPFE<br>ANTYQETYKR ISRVEFTFPD FVTEGARDLI SRLLKHNPQS RPMLREVLEH<br>PWITANSSKP SNCQNKESAS KQS. |
| <b>Form</b>                | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.5mM DTT, 100mM NaCl,                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | 0.1mM EDTA, 0.1mM EGTA, 0.1mM PMSF, 20% glycerol.                                                                                                     |
| <b>Purity</b>        | > 95% by SDS – PAGE.                                                                                                                                  |
| <b>Concentration</b> | 0.5 mg/ml (determined by Bradford assay).                                                                                                             |
| <b>Storage</b>       | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

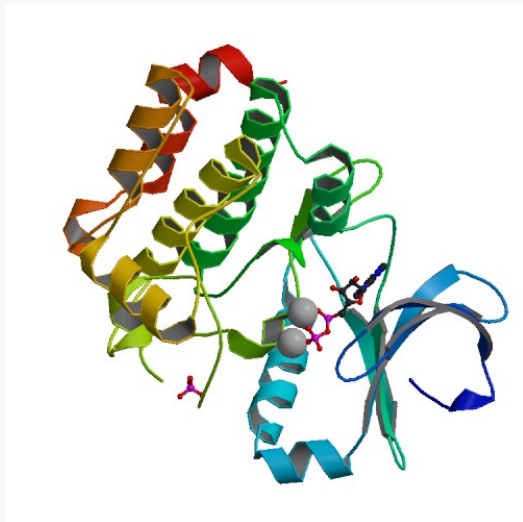
## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | <a href="#">AURKA</a> <i>aurora kinase A</i> [ <i>Homo sapiens</i> ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>       | AURKA ; aurora kinase A; AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; MGC34538; OTTHUMP00000031344; OTTHUMP00000166071; IPL1-related kinase; aurora-related kinase 1; aurora/IPL1-like kinase; serine/threonine kinase 6; breast-tumor-amplified kinase; serine/threonine protein kinase 15; EC 2.7.11.1; AurA; Aurora kinase A; Aurora-A; Serine/threonine kinase 15; hARK1; Breast tumor-amplified kinase; OTTHUMP00000031340; OTTHUMP00000031342; OTTHUMP00000031343; OTTHUMP00000031345; Breast tumor-amplified kinase 3; serine/threonine protein kinase 6 |
| <b>Gene ID</b>        | <a href="#">6790</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>    | <a href="#">NM_003600</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b> | <a href="#">NP_003591</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>            | <a href="#">603072</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>     | <a href="#">O14965</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b>          | 20q13                                                                                                                                                               |
| <b>Pathway</b>                      | Cell Cycle, Mitotic                                                                                                                                                 |
| <b>Function</b>                     | ATP binding; nucleotide binding; protein binding; protein binding; protein serine/threonine kinase activity; transferase activity; ubiquitin protein ligase binding |
| <b>PDB rendering based on 1mq4.</b> |                                                                                  |