

## Recombinant Human Aurora Kinase A, His-tagged

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

### SPECIFICATION

<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 GPKVATAPVG GPKRVLVTQQ FPCQNPLPVN SGQAQRVLCP SNSSQRIPLQ AQKLVSSHKP VQNQKQKQLQ ATSVPHPVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL EDFEIGRPLG KGKFGNVYLA REKQSKFILA LKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLYGYF HDATRVYLIL EYAPLGTVYR ELQKLSKFDE QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLLGSAGEL KIADFGWSVH APSSRRTTLC GTLDYLPPEM IEGRMHDEKV DLWSLGVLCY EFLVGKPPFE ANTYQETYKR ISRVEFTFPD FVTEGARDLI SROLLKHNPQS RPMLREVLEH 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 [ 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>

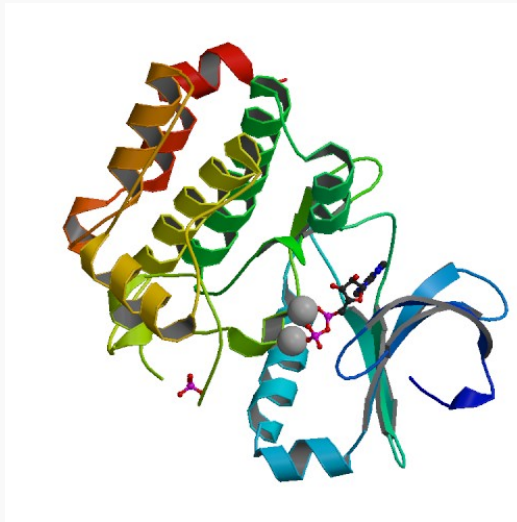
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<b>Chromosome Location</b>	20q13
<b>Pathway</b>	Cell Cycle, Mitotic
<b>Function</b>	ATP binding; nucleotide binding; protein binding; protein binding; protein serine/threonine kinase activity; transferase activity; ubiquitin protein ligase binding

PDB rendering based on 1mq4.



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