

Recombinant Human Aurora Kinase A, His-tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDRSKENCIS GPKVATAPVG GPKRVLVTQQ FPCQNPLPVN SGQAQRVLCP SNSSQRIPLQ AQKLVSHPK VQNQKQKQLQ ATSVPHPVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL EDFEIGRPLG KGKFGNVYLA REKQSKFILA LKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLGYF HDATRVYLIL EYAPLGTVYR ELQKLSKFDE QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLLGSAGEL KIADFGWSVH APSSRRTTLC GTLDYLPPPEM IEGRMHDEKV DLWSLGVLGY EFLVGKPPFE ANTYQETYKR ISRVEFTFPD FVTEGARDLI SRLLKHNPQS RPMLREVLEH PWITANSSKP SNCQNKESAS KQS.
Form	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.
Purity	> 95% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	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

Gene Name	AURKA <i>aurora kinase A</i> [<i>Homo sapiens</i>]
Synonyms	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
Gene ID	6790
mRNA Refseq	NM_003600
Protein Refseq	NP_003591
MIM	603072
UniProt ID	O14965

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