

Recombinant Human Aurora Kinase A, His-tagged

Cat. No. AURKA-683H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Aurora A kinase (amino acids 2-403) fused at the N-terminus to a His Tag sequence was expressed in <i>S. frugiperda</i> insect cells using a baculovirus expression system. Aurora A plays an important role in chromosome segregation and cell division. MW = 50 kDa.
Species	Human
Source	<i>S. frugiperda</i>
Protein Length	2-403 a.a.
Description	Aurora A kinase also known as serine/threonine-protein kinase 6 is an enzyme that in humans is encoded by the AURKA gene. Aurora 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 A is activated by one or more phosphorylations and its activity peaks during the G2 phase to M phase transition in the cell cycle.
Form	Liquid. In 100 mM NaCl, 25 mM Tris-HCl, 3 mM DTT, 50% glycerol, 0.05% Tween-20 Detergent, pH 7.5. Please refer to vial label for lot-specific concentration.
Unit Definition	One unit is defined as the amount of enzyme that will phosphorylate 1 pmol of Ser/Thr 1 peptide substrate per min at 30°C, pH 7.4.
Purity	≥90% by SDS-PAGE.

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Specific Activity	≥120 U/μg protein.
Toxicity	Regulatory Review.
Storage	≤ -70°C. Avoid freeze/thaw Following initial thaw, aliquot and freeze (-70°C).
GENE INFORMATION	
Gene Name	AURKA aurora kinase A [Homo sapiens]
Synonyms	aurora kinase A; AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; MGC34538; AURKA; serine/threonine-protein kinase 6; ARK-1; hARK1; OTTHUMP00000031341; OTTHUMP00000166072; IPL1-related kinase; aurora-related kinase 1; aurora/IPL1-like kinase; serine/threonine kinase 6; aurora/IPL1-related kinase 1; breast tumor-amplified kinase; breast-tumor-amplified kinase; serine/threonine protein kinase 15; serine/threonine-protein kinase 15; serine/threonine-protein kinase aurora-A; Aurora/IPL1-related kinase 1; Serine/threonine-protein kinase aurora-A; Aurora-related kinase 1; Serine/threonine-protein kinase 15; Breast tumor-amplified kinase; EC 2.7.11.1; AurA
Gene ID	6790
mRNA Refseq	NM_003600
Protein Refseq	NP_003591
MIM	603072
UniProt ID	O14965
Chromosome	20q13.2-q13.3

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