
Product Data Sheet

Product Name: AURKA Human
 Cat. No.: GP22424
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine/threonine-protein kinase 6; Aurora kinase A; Serine/threonine kinase 15; Aurora/IPL1-related kinase 1; Breast tumor-amplified kinase; Aurora-A; Aurora-related kinase 1; hARK1; AURKA; AIK; ARK1; AURA; BTAK; STK15; STK6; STK7; STK15; AURORA2; MGC34538.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MDRSKENCIS GPVKATAPVG GPKRVLVTQQ FPCQNPLPVN SGQAQRVLCP SNSSQRIPLQ AQKLVSSHKP VQNQKQKQLQ ATSVPHVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL EDFEIGRPLG KGKFGNVYLA REKQSKFILALKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLYGYF HDATRVLIL EYAPLGTVYR ELQKLSKFDE QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLGSGAGEL KIADFGWSVH APSSRRTTLC GTLDYLPPEM IEGRMHDEKV DLWSLGVLCY EFLVGKPPFE ANTYQETYKRISRVEFTFPD FVTEGARDLI SLLKHNPSQ RPMLREVLEH PWITANSSKP SNCQNKESAS KQS.</p>		
Formulation	The AURKA solution containing 20mM Tris-HCl buffer (pH 8.0), 0.5mM DTT, 100mM NaCl, 0.1mM EDTA, 0.1mM EGTA, 0.1mM PMSF and 20% glycerol.		

Introduction

AURKA (Aurora Kinase A) belongs to the mitotic serine/threonine kinases family. AURKA is a cell cycle-regulated kinase which may be involved in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. AURKA is found at the centrosome in interphase cells and at the spindle poles in mitosis. Since the AURKA expression is cell-cycle regulated, it is low in G1/S, it accumulates during G2/M, and it decreases rapidly after. AURKA is involved in important processes during mitosis and meiosis whose proper function is essential for healthy cell proliferation. In addition,

Caution: Product has not been fully validated for medical applications. For research use only.

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AURKA plays an essential role in tumourigenesis and is overexpressed in various types of cancers. AURKA is strongly expressed in the testis, colon, ovarian, prostate, neuroblastoma, breast and cervical cancer cell lines and weakly in skeletal muscle, thymus and spleen. AURKA interacts with its substrates BORA and ARHGEF2, as well as with TACC1 and CPEB1. Defects in the AURKA gene cause numerical centrosome aberrations including aneuploidy. AURKA overexpression has been linked to chromosomal instability in colorectal cancer. AURKA expression may have a prognostic significance in ovarian carcinoma.

Stability

AURKA although stable at 4°C for 1 week, should be stored below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

Background

AURKA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 423 amino acids (1-403) and having a molecular mass of 47.9kDa. AURKA is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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