

AURKA Human

Description: 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.

Catalog #:PKPS-357

For research use only.

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, MGC3453

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MDRSKENCIS GPVKATAPVG
GPKRVLVTQQ FPCQNPLPVN SGQAQRVLCP SNSSQRIPLQ AQKLVSHPK VQNQKQKQLQ
ATSVHPVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL EDGEIGRPLG
KGKFGNVYLA REKQSKFILALKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLYGYP
HDATRVYLIL EYA

Purity: Greater than 95.0% as determined by SDS-PAGE.

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.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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, AURKA plays an essential role in tumorigenesis 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.

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