Recombinant human Aurora A protein

Catalog Number: ATGP0343

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-403aa

UniProt No.
O14965

NCBI Accession No.
NP_003591.2

Alternative Names
Serine/threonine-protein kinase 6, Aurora-A, AIK, ARK1, AuRA, BTAK, STK15, STK6, Aurora kinase A, AuRKA, Serine/threonine-protein kinase 6 Aurora 2, Aurora A, aurora kinase A, IAK, Serine/threonine kinase 15.

PRODUCT SPECIFICATION

Molecular Weight
47.9 kDa (423aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.5mM DTT, 100mM NaCl, 0.1mM EDTA, 0.1mM EGTA, 0.1mM PMSF, 20% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human Aurora-A

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

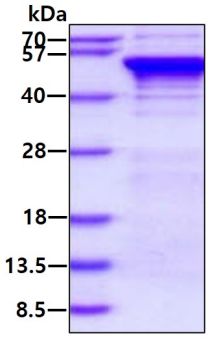
<MGSSHHHHHH SSGLVPRGSH> MDRSKENCIS GPVKATAPVG GPKRVLVTQQ FPCQNPLPVN SGQAQRVLCP SNSSQRIPLQ AQKLVSSHKP VQNQKQKQLQ ATSVPHPVSR PLNNTQKSKQ PLPSAPENNP EEELASKQKN EESKKRQWAL EDFEIGRPLG KGKFGNVYLA REKQSKFILA LKVLFKAQLE KAGVEHQLRR EVEIQSHLRH PNILRLYGYF HDATRVYLIL EYAPLGTVYR ELQKLSKFDE QRTATYITEL ANALSYCHSK RVIHRDIKPE NLLLGSAGEL KIADFGWSVH APSSRRTTLC GTLDYLPPEM IEGRMHDEKV DLWSLGVLCY EFLVGKPPFE ANTYQETYKR ISRVEFTFPD FVTEGARDLI SRLLKHNPSQ RPMLREVLEH PWITANSSKP SNCQNKESAS KQS

General References

Tchatchou S., et al. (2007). Cancer lett. 247(2): 266-72
Chen SS., et al. (2002). EMBO J. 21(17): 4491-9

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.