

Recombinant human Aurora B protein

Catalog Number: ATGP0394

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-344aa

UniProt No.

Q96GD4

NCBI Accession No.

NP_004208.2

Alternative Names

Serine/threonine-protein kinase 12, Aurora-B, AIK2, AIM1, ARK2, AurB, aurkb-sv1, aurkb-sv2, IPL1, STK12, aurkb, AIM1, AuRKB, Aurora 1, STK1, STK5, Aurora and Ipl1 like midbody associated protein 1, Aurora kinase B, Aurora related kinase 2, Aurora/IPL1 related kinase 2, Serine/threonine kinase 12, Serine/threonine protein kinase 12,

PRODUCT SPECIFICATION

Molecular Weight

41.4 kDa (364aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% 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 B is a member of a family of mitotic serine/threonine kinases. Aurora Kinase B associates with chromosomes during prophase prior to relocalizing to the spindle at anaphase. Aurora Kinase B regulates chromosome segregation through the control of microtubule-kinetochore attachment and cytokinesis.

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Expression of Aurora Kinase B during the G2/M phase transition is tightly coordinated with histone H3 phosphorylation, while overexpression in many kinds of cancers. Recombinant human Aurora Kinase B, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

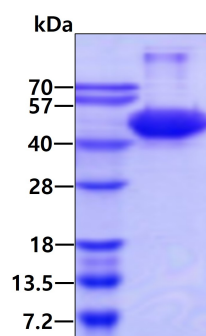
<MGSSHHHHHH SSGLVPRGSH> MAQKENSYPW PYGRQTAPSG LSTLPQRVLR KEPVTPSALV LMSRSNVQPT
AAPGQKVMEN SSGTPDILTR HFTIDDFEIG RPLGKKGKFGN VYLAREKKSH FIVALKVLFK SQIEKEGVEH QLRREIEIQA
HLHHPNILRL YNYFYDRRRI YLILEYAPRG ELYKELQKSC TFDEQRTATI MEELADALMY CHGKKVIHRD IKPENLLLGL
KGELKIADFG WSVHAPSLRR KTMCGTLDYL PPEMIEGRMH NEKVDLWCIG VLCYELLVGN PPFESASHNE TYRRIVKVDL
KFPASVPMGA QDLISKLLRH NPSERLPLAQ VSAHPWVRAN SRRVLPPSAL QSVA

General References

Chen J., et al. (2003) *J Biol Chem.* 278(1):486-90.
Zeitlin SG., et al. (2001) *Cell Biol.* 155(7):1147-57.

DATA

SDS-PAGE



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