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## Recombinant human Aurora B protein

Catalog Number: ATGP0394

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-344aa

#### **UniProt No.**

096GD4

## **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/theronine 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**

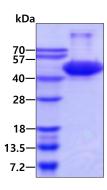
<MGSSHHHHHH SSGLVPRGSH> MAQKENSYPW PYGRQTAPSG LSTLPQRVLR KEPVTPSALV LMSRSNVQPT AAPGQKVMEN SSGTPDILTR HFTIDDFEIG RPLGKGKFGN VYLAREKKSH FIVALKVLFK SQIEKEGVEH QLRREIEIQA HLHHPNILRL YNYFYDRRRI YLILEYAPRG ELYKELQKSC TFDEQRTATI MEELADALMY CHGKKVIHRD IKPENLLLGL KGELKIADFG WSVHAPSLRR KTMCGTLDYL PPEMIEGRMH NEKVDLWCIG 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**



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

