

Aurora Kinase B Recombinant Protein | AURKB recombinant protein

Recombinant Human Aurora Kinase B

CATALOG #
AAA38654

HOST
E Coli

PRODUCT SYNONYMS

Aurora Kinase B; Recombinant Human Aurora Kinase B; AURKB Human; Aurora Kinase B Human Recombinant; Serine/threonine-protein kinase 12; Aurora kinase B; Serine/threonine-protein kinase aurora-B; Aurora- and Ipl1-like midbody-associated protein 1; Aurora/IPL1-related kinase 2; Aurora-related kinase 2; AIM-1; ARK-2; STK-1; AURKB; AIK2; AIM1; ARK2; STK12; AurB; IPL1; STK5; aurkb-sv1; aurkb-sv2; AURKB recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The AURKB solution containing 20mM Tris-HCl buffer (pH8.0), 0.5mM DTT, 20% glycerol, 0.1mM EDTA, 0.1mM EGTA, 0.1M NaCl and 0.1mM PMSF. Sterile filtered colorless solution.
Concentration	0.5mg/ml (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MAQKEN SYPWPYGRQT APSGLSTLPQ RVLKPEVTP SALVMSRSN VQPTAAPGQK VMENSSGTPD ILTRHFTIDD FEIGRPLGKG KFGNVYLARE KKSHFIVALK VLFKSQIEKE GVEHQLRREI EIQAHLHPN ILRLNYFYD RRIYLILEY APRGELYKEL QKSCTFDEQR TATIMEELAD ALMYCHGKKV IHRDIKPENL LLGLKGELKI ADFGWSVHAP SLRRKTMCGT LDYLPPEMIE GRMHNEKVDL WCIGVLCYEL LVGNPPFESA SHNETYRRIV KVDLKFPASV PMGAQDLISK LLRHNPSERL PLAQVSAHPW VRANSRRVLP PSALQSVA
Sequence Length	303
Preparation and Storage	AURKB although stable at 4 degree C for 1 week, should be stored below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for AURKB recombinant protein	Description: AURKB Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 364 amino acids (1-344) and having a molecular mass of 41.4kDa. AURKB is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques. Introduction: Aurora Kinase B (AURKB) belongs to a family of mitotic serine/threonine kinases. AURKB connects with chromosomes for the period of prophase prior to relocating to the spindle at anaphase. AURKB localizes to microtubules near kinetochores, specifically to the specialized microtubules called K-fibers. AURKB controls chromosome segregation through the control of microtubule-kinetochore attachment and cytokinesis. AURKB is required for kinetochore localization of BUB1 and SGOL1. AURKB expression during the G2/M phase transition is firmly coordinated with histone H3 phosphorylation, while overexpression is seen in many kinds of cancers. AURKB phosphorylates 'Ser-10' and 'Ser-28' of histone H3 during mitosis. AURKB is a component of the CPC (chromosomal passenger complex), which is a complex that acts as a key regulator of mitosis. High level expression of AURKB is seen in the thymus, which is also expressed in the spleen, lung, testis, colon, placenta and fetal liver. AURKB is expressed during S and G2/M phase and expression is up-regulated in cancer cells during M phase.
Product Categories/Family for AURKB recombinant protein	Protein Kinases; Enzymes; Aurora Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	378786658
NCBI GeneID	9212
NCBI Accession #	NP_001243763.1
NCBI GenBank Nucleotide #	NM_001256834.1
UniProt Accession #	Q96GD4; O14630; O60446; O95083; Q96DV5; Q9UQ46; B4DNM4; C7G533; C7G534; C7G535; D3DTR4; J9JID1
Molecular Weight	39,467 Da
NCBI Official Full Name	aurora kinase B isoform 2
NCBI Official Synonym Full Names	aurora kinase B
NCBI Official Symbol	AURKB
NCBI Official Synonym Symbols	AIK2; AIM1; ARK2; AurB; IPL1; STK5; AIM-1; STK12; PPP1R48; aurkb-sv1; aurkb-sv2
NCBI Protein Information	aurora kinase B; ARK-2; STK-1; aurora 1; aurora kinase B-Sv1; aurora kinase B-Sv2; aurora- and lpl1-like midbody-associated protein 1; aurora-1; aurora-B; aurora-related kinase 2; aurora/IPL1-related kinase 2; protein phosphatase 1, regulatory subunit 48; serine/threonine kinase 12; serine/threonine-protein kinase 12; serine/threonine-protein kinase 5; serine/threonine-protein kinase aurora-B
UniProt Protein Name	Aurora kinase B
UniProt Gene Name	AURKB
UniProt Synonym Gene Names	AIK2; AIM1; AIRK2; ARK2; STK1; STK12; STK5; AIM-1; ARK-2; Aurora-related kinase 2
UniProt Entry Name	AURKB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/aurkb-recombinant-protein-e-coli/38654>