AURKA Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	AURKA, Blocking Peptide
Full Product Name	AURKA Blocking Peptide
Product Gene Name	AURKA blocking peptide
Product Synonym Names	AIK; ARK-1; ARK1; AURA; Aurka; Aurora 2; Aurora A; Aurora kinase A; Aurora-related kinase 1; Aurora/IPL1 like kinase; Aurora/IPL1-related kinase 1; AURORA2; Breast tumor-amplified kinase; BTAK; hARK1; IAK; IPL1 related kinase; MGC34538; OTTHUMP00000031340; OTTHUMP00000031341; OTTHUMP00000031342; OTTHUMP00000031343; OTTHUMP00000031344; OTTHUMP00000031345; OTTHUMP00000166071; OTTHUMP00000166072; PPP1R47; Protein phosphatase 1, regulatory subunit 47; Serine/threonine kinase 15; Serine/threonine kinase 6; Serine/threonine-protein kinase 15; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase aurora-A; STK15; STK6; STK6_HUMAN; STK7
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	AURKA peptide (MBS9619847) is used for blocking the activity of AURKA antibody (MBS9602393)
Molecular Weight	45809 MW
OMIM	603072
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for AURKA blocking peptide	Blocking/Control
Related Product Information for AURKA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of AURKA blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AURKA purchase	MBS9619847 is a blocking peptide targeting AURKA.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AURKA. It may not necessarily be applicable to this product.

NCBI GI #	1020158885
NCBI GeneID	6790
NCBI Accession #	NP_001310232.1

UniProt Primary Accession #	O14965
UniProt Secondary Accession #	O60445; O75873; Q9BQD6; Q9UPG5; E1P5F9
UniProt Related Accession #	O14965
GenBank Nucleotide #	NM_001323303.1
NCBI Official Full Name	aurora kinase A
NCBI Official Synonym Full Names	aurora kinase A
NCBI Official Symbol	AURKA
NCBI Official Synonym Symbols	AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; PPP1R47
UniProt Protein Name	Aurora kinase A
UniProt Synonym Protein Names	Aurora 2; Aurora/IPL1-related kinase 1; ARK-1; Aurora-related kinase 1; hARK1; Breast tumor-amplified kinase; Serine/threonine-protein kinase 15; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase aurora-A
Protein Family	Aurora kinase
UniProt Gene Name	AURKA
UniProt Synonym Gene Names	AIK; AIRK1; ARK1; AURA; AYK1; BTAK; IAK1; STK15; STK6; ARK-1; Aurora-related kinase 1; hARK1
UniProt Entry Name	AURKA_HUMAN
NCBI Protein Information	aurora kinase A
NCBI Summary for AURKA	The protein encoded by this gene is a cell cycle-regulated kinase that appears to be involved in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for AURKA	AurA: a member of the AUR family of kinases. A cell cycle-regulated serine/threonine protein kinase that is overexpressed in many tumor cell lines. Regulated by phosphorylation-dependent proteasomal degradation. Localized to mitotic centrosomes and spindle microtubules and is required for centrosome maturation. Loss of Aurora A leads to defective mitotic spindles and gross errors in chromosome segregation. Required for centrosome duplication and chromosome segregation. Overexpression in culture drives transformation and aneuploidy, and negatively regulates p53. Amplified or overexpressed in many tumors or cell lines. Found as a skin tumor susceptibility gene in mouse, and a human SNP in a degradation domain is weakly cancer-associated and undergoes allele-specific amplification. Inhibitors: VX-680, ZM447439, Hesperadin, SNS-595. Protein type: Protein kinase, Other; Kinase, protein; Oncoprotein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Other group; AUR family Chromosomal Location of Human Ortholog: 20q13 Cellular Component: germinal vesicle; centrosome; pronucleus; spindle pole centrosome; cytosol; microtubule cytoskeleton; axon hillock; perinuclear region of cytoplasm; spindle microtubule; spindle; spindle midzone; midbody; nucleus; condensed nuclear chromosome, pericentric region Molecular Function: protein serine/threonine kinase activity; protein binding; ubiquitin protein ligase binding; protein serine/threonine/tyrosine kinase activity; histone serine kinase activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: spindle stabilization; mitosis; regulation of centrosome cycle; positive regulation of mitosis; protein amino acid autophosphorylation; regulation of protein stability; regulation of cytokinesis; protein amino acid phosphorylation; mitotic centrosome separation; mitotic spindle organization and biogenesis; centrosome localization; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; cell division; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; mitotic cell cycle; G2/M transition of mitotic cell cycle; negative regulation of protein binding; spindle assembly involved in female meiosis I; negative regulation of apoptosis; anterior/posterior axis specification Disease: Colorectal Cancer
Research Articles on AURKA	**1.** SIX3 is a novel negative transcriptional regulator and acts as a tumor suppressor that directly represses the transcription of AURKA and AURKB in astrocytoma.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/aurka/9619847