AURKA
Recombinant Human Aurora Kinase A (aa 1-403) Active GST-His

Catalog No.	CSI10915	**Quantity:**	50 µg

Alternate Names: AIK, ARK1, AURA, AURORA2, BTAK, MGC34538, STK15, STK6, STK7, IPL1-related kinase, aurora-A, aurora-related kinase 1, aurora/IPL1-like kinase, breast-tumor-amplified kinase, serine/threonine kinase 15, serine/threonine kinase 6, serine/threonine protein kinase 15, serine/threonine protein kinase 6

Description: Human Aurora-A, Amino acids M_1-S_{403} (as in GenBank entry NM_003600)*, N-terminally fused to GST-HIS_6-Thrombin cleavage site
***Sequence may contain documented polymorphisms Detailed sequence on request**

Concentration: 0.245 µg/µl

Gene ID: 6790

Protein Accession No: NM_003600

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 76,334 Da

Formulation: 50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol

Purification: One-step affinity purification using GSH-agarose

Product Identity: Aurora-A, was confirmed as Aurora-A by specific Western Blotting using anti Aurora-A antibody

Activation: With PDK1, (GenBank accession No.: NM_002613)

Specific Activity: 129 pmol/µg×min

Method for determination of K_m value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: tetra(LRRLSLG), 5 µg / 50 µl
Recombinant Aurora-A: 200 ng / 50 µl
• Filter binding assay
MAPH membrane (Millipore)

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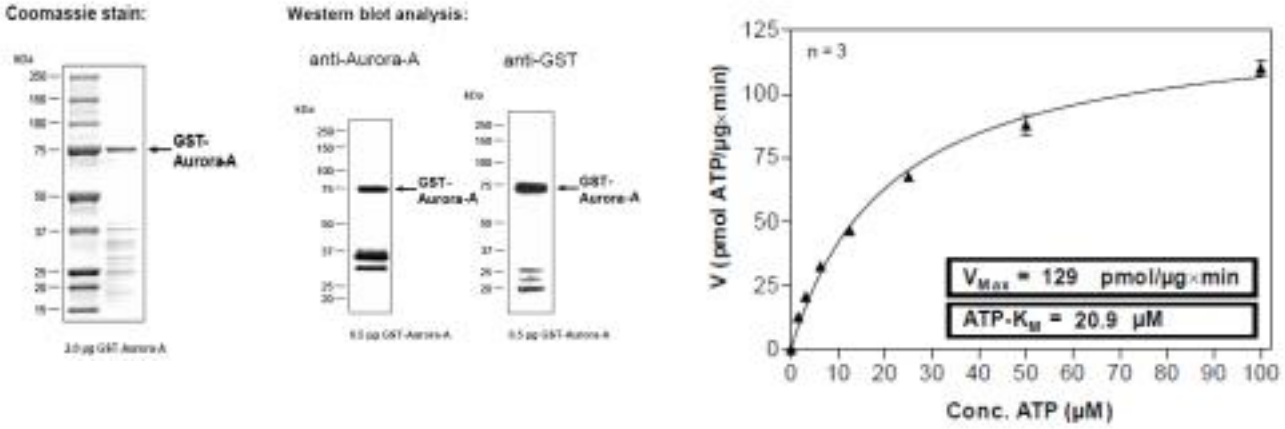
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

Determination of K_m value for ATP:



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