

# **ProQinase™ Aurora-C**

aurora kinase C

### **Recombinant Human Active Protein Kinase**

HGNC Symbol: AURKC

Synonyms: AIE2, AIK3, ARK3, ARK-3, AurC, STK13

Product No.: 0315-0000-1

Lot: 009

**Description:** Human Aurora-C, full length, amino acids  $M_1$ - $S_{275}$  (as in NCBI/Protein entry NP\_003151.2), N-terminal GST fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells

**Product identity:** Aurora-C Lot 009, was confirmed as Aurora C by mass spectroscopy LC-ESI-MS/MS

Theoretical MW<sub>Fusion Protein</sub>: 58,480 Da

Expression host: Sf9 insect cells

Purification: GST-Affinity Chromatography

Activation: This kinase was not activated by special procedures

**Storage buffer:** 50 mM Tris-HCl, pH 8.0, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20 % glycerol

#### **Storage temperature:** -80°C

For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions, aliquots below 10µl are not advisable. Avoid repeated freeze-thaw cycles!

#### Protein concentration: 0.116 µg/µl

(Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein)

#### **Biochemical Parameters:**

Specific kinase activity (P<sub>i</sub> transfer): 4.2 pmol/µg × min ATP-K<sub>M</sub>: 7.1 µM

Aurora-C Lot 009: Coomassie stain

# Aurora-C Lot 009: Determination of $V_{max}$ and $K_M$ value for ATP



Determination of  $K_{\ensuremath{\mathsf{M}}}$  value & Specific activity:

 Assay conditions: 60 mM HEPES-NaOH, pH 7.5

- 3 mM MgCl<sub>2</sub>
- 3 mM MnCl<sub>2</sub>
- 3 µM Na-orthovanadate
- 1.2 mM DTT
- 50 μg/ml PEG<sub>20.000</sub>

ATP (variable) Substrate: CDC25C-derived peptide 100 µg/ml

- Kinase: 4 µg/ml
- Filter binding assay
- MSPH membrane (Millipore)



was also successfully tested by Reaction Biology for the use with the ADP-Glo<sup>™</sup> Kinase assay from ADP-Glo assay conditions may vary from radiometric assay conditions, please inquire for assay details



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GST-Aurora-C Recombinant Fusion Protein Amino Acid Sequence									
1	MSPILGYWKI	KGLVQPTRLL	LEYLEEKYEE	HLYERDEGDK	WRNKKFELGL	EFPNLPYYID	60		
61	GDVKLTQSMA	IIRYIADKHN	MLGGCPKERA	EISMLEGAVL	DIRYGVSRIA	YSKDFETLKV	120		
121	DFLSKLPEML	KMFEDRLCHK	TYLNGDHVTH	PDFMLYDALD	VVLYMDPMCL	DAFPKLVCFK	180		
181	KRIEAIPQID	KYLKSSKYIA	WPLQGWQATF	GGGDHPPKSD	LVPRGSMRRL	TVDDFEIGRP	240		
241	LGKGKFGNVY	LARLKESHFI	VALKVLFKSQ	IEKEGLEHQL	RREIEIQAHL	QHPNILRLYN	300		
301	YFHDARRVYL	ILEYAPRGEL	YKELQKSEKL	DEQRTATIIE	ELADALTYCH	DKKVIHRDIK	360		
361	PENLLLGFRG	EVKIADFGWS	VHTPSLRRKT	MCGTLDYLPP	EMIEGRTYDE	KVDLWCIGVL	420		
421	CYELLVGYPP	FESASHSETY	RRILKVDVRF	PLSMPLGARD	LISRLLRYQP	LERLPLAQIL	480		
481	KHPWVQAHSR	RVLPPCAQMA	S				540		
1-218: GST Pink: Thrombin cleavage site blue: Aurora-C									

1-218: GST Pink: Thrombin cleavage site blue: Aurora-C

Aurora-C wt <sup>1</sup> Amino Acid Sequence									
1	MRRLTVDDFE IGRPLGKGKF GNVYLARLKE SHFIVALKVL FKSQIEKEGL EHQLRREIEI	60							
61	QAHLQHPNIL RLYNYFHDAR RVYLILEYAP RGELYKELQK SEKLDEQRTA TIIEELADAL	120							
121	TYCHDKKVIH RDIKPENLLL GFRGEVKIAD FGWSVHTPSL RRKTMCGTLD YLPPEMIEGR	180							
181	TYDEKVDLWC IGVLCYELLV GYPPFESASH SETYRRILKV DVRFPLSMPL GARDLISRLL	240							
241	RYQPLERLPL AQILKHPWVQ AHSRRVLPPC AQMAS	300							
blue: Aurora C acqueres expressed in recombinant protein									

blue: Aurora-C sequence expressed in recombinant protein

<sup>1</sup>NCBI/Protein accession number NP\_003151.2

**Recombinant Proteins** 

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