

## AURC Protein, Human (Sf9, GST)

Cat. No.:	HY-P701710
Synonyms:	AURKC; Aurora kinase C; Aurora 3; Aurora/IPL1-related kinase 3; ARK-3; Aurora-related kinase 3; Aurora/IPL1/Eg2 protein 2; Serine/threonine-protein kinase 13; Serine/threonine-protein kinase aurora-C
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9UQB9 (S2-S309)
Gene ID:	6795
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	AURC, a serine/threonine-protein kinase, functions as a pivotal component of the chromosomal passenger complex (CPC), a critical regulator of mitosis. The CPC complex is indispensable at the centromere for ensuring accurate chromosome alignment and segregation, crucial for chromatin-induced microtubule stabilization and spindle assembly. In addition to its role in mitosis, AURC plays a role in meiosis, particularly in spermatogenesis. It shares redundant cellular functions with AURKB and can rescue an AURKB knockdown. Similar to AURKB, AURKC phosphorylates histone H3 at 'Ser-10' and 'Ser-28'. AURKC also phosphorylates CPC complex subunits BIRC5/survivin and INCENP, enhancing AURKC activity. Furthermore, AURC targets TACC1, a protein involved in cell division, by phosphorylating it at 'Ser-228'.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA