

## RIOK2 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701766
Synonyms:	RIOK2; Serine/threonine-protein kinase RIO2; RIO kinase 2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9BVS4 (G2-E552)
Gene ID:	55781
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	RIOK2, a serine/threonine-protein kinase, plays a pivotal role in the final stages of cytoplasmic maturation of the 40S ribosomal subunit. Its involvement extends to the export of pre-40S ribosome particles from the nucleus to the cytoplasm, a crucial step in ribosomal biogenesis. The kinase activity of RIOK2 is essential for orchestrating the release of NOB1, PNO1, and LTV1 from the late pre-40S subunit and facilitating the processing of 18S-E pre-rRNA into mature 18S rRNA. Beyond its role in ribosome maturation, RIOK2 exhibits regulatory functions in the cell cycle, specifically influencing the timing of the metaphase-anaphase transition during mitotic progression. This regulatory role is likely modulated by phosphorylation, possibly by PLK1, highlighting the multifaceted contributions of RIOK2 to cellular processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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