

## Kanamycin kinase type II/NEO protein, Klebsiella pneumoniae (Tag Free)

Cat. No.:	HY-P70228A		
Synonyms:	rKlAminoglycoside 3'-phosphotransferase; Aminoglycoside 3'-phosphotransferase; APH(3')-II; APH(3')II; Kanamycin kinase type II; Neomycin-kanamycin phosphotransferase type II; neo		
Species:	Others		
Source:	E. coli		
Accession:	P00552 (M1-F264)		
Gene ID:	59690385		
Molecular Weight:	approximately 29.68 kDa		

PROPERTIES					
AA Sequence	MIEQDGLHAG	SPAAWVERLF	GYDWAQQTIG	CSDAAVFRLS	
	AQGRPVLFVK	TDLSGALNEL	QDEAARLSWL	ΑΤΤGVΡCΑΑV	
	LDVVTEAGRD	WLLLGEVPGQ	DLLSSHLAPA	ΕΚVSIMADAM	
	RRLHTLDPAT	CPFDHQAKHR	IERARTRMEA	GLVDQDDLDE	
	EHQGLAPAEL	FARLKARMPD	GEDLVVTHGD	ACLPNIMVEN	
	GRFSGFIDCG	RLGVADRYQD	IALATRDIAE	E L G G E W A D R F	
	LVLYGIAAPD	SQRIAFYRLL	DEFF		
		-			
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 $\mu m$ filtered solution of 50 mM Tris, 200 mM NaCl, pH 8.0.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution					
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
	recommended to add a car	rrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trenato	se).	
Storago & Stability	Stared at 20°C for 2 years	After reconstitution it is at	able at 1°C for 1 weak or 20°	C for longer (with corrier protein) It is	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It recommended to freeze aliquots at -20°C or -80°C for extended storage.				
	recommended to freeze all	iquots at -20°C or -80°C for e	extended storage.		
Shipping	Room temperature in continental US; may vary elsewhere.				
Sulphing	Room temperature in cont	mental 03, may vary elsewi			

## DESCRIPTION

## Background

The Kanamycin kinase type II/NEO protein confers resistance to a spectrum of aminoglycoside antibiotics, including kanamycin, neomycin, paromomycin, ribostamycin, butirosin, and gentamicin B. Its role involves mitigating the impact of these antibiotics, allowing the organism to withstand their inhibitory effects. This resistance mechanism highlights the

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versatility of the Kanamycin kinase type II/NEO protein, as it counteracts multiple members of the aminoglycoside antibiotic class, contributing to the organism's ability to thrive in the presence of these antimicrobial agents.

## Caution: Product has not been fully validated for medical applications. For research use only.

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