

## 32-8733: Recombinant *Klebsiella pneumoniae* Kanamycin kinase type II/NEO

**Gene :** neo  
**Uniprot ID :** P00552

### Description

Source: E.coli.  
MW :29kD.

Recombinant *Klebsiella pneumoniae* Aminoglycoside 3'-phosphotransferase is produced by our E.coli expression system and the target gene encoding Met1-Phe264 is expressed. Aminoglycoside 3'-phosphotransferase (APH(3')), also known as aminoglycoside kinase, is an aminoglycoside-modifying enzyme and widely presented in resistant bacteria. These ATP-dependent enzymes phosphorylate the 3'-hydroxyl of a variety of aminoglycosides including kanamycins, neomycins, paromomycins, neamine, ribostamycin, geneticin, and paromamine. These phosphorylated aminoglycosides fail to bind to their respective ribosomal binding sites with high affinity; hence resistance is conferred to the drugs that are phosphorylated. APH(3') is primarily found in certain species of gram-positive bacteria.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of PBS, pH 7.4, 20% Glycerol.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MIEQDGLHAGSPAAWVERLFGYDWAQQTIGCSDAAVFRLSAQGRPVLFVKTDLGALNELQDEAARLSWLAT  
TGVPCAAVL DVVTEAGR DWLLLGEVPGDLLSSHLAPAEKVSIMADAMRRRLHTLDPATCPFDPHQA KHRIERAR  
TRMEAGLVDQDDLDEEHQGLAPAE L FARLKARMPDGEDLVVTHGDA CLPNIMVENGRFSGFIDCGRLGVADR  
YQDIALATRDIAEELGG EWADRFLVLYGIAAPDSQRIAFYRLLDEFF

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.