

# Recombinant *Klebsiella pneumoniae* NEO Protein

Catalog Number:PKSQ050062



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

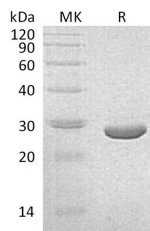
## Description

<b>Synonyms</b>	Aminoglycoside 3'-phosphotransferase;APH(3')-II;APH(3')II;Kanamycin kinase type II;Neomycin-kanamycin phosphotransferase type II;neo
<b>Species</b>	<i>Klebsiella pneumoniae</i>
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met1-Phe264
<b>Accession</b>	P00552
<b>Calculated Molecular Weight</b>	29 kDa
<b>Observed molecular weight</b>	26-30 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 6%Trehalose, 4%Mannitol, 0.05%Tween80, PH8.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

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.

## For Research Use Only

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Fax: 1-832-243-6017