

## Recombinant *Klebsiella pneumoniae* NEO Protein

**Catalog Number:** PKSQ050062

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

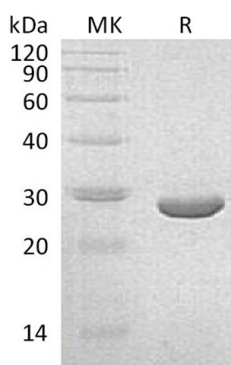
### Description

<b>Species</b>	<i>Klebsiella pneumoniae</i>
<b>Source</b>	E.coli-derived <i>Klebsiella pneumoniae</i> NEO protein Met1-Phe264
<b>Calculated MW</b>	29 kDa
<b>Observed MW</b>	26-30 kDa
<b>Accession</b>	P00552
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<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%Tween 80, PH8.0.

### 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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