

Recombinant *Klebsiella pneumoniae* NEO Protein

Catalog Number: PKSQ050062

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

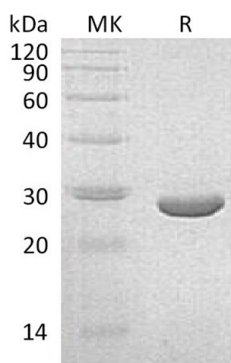
Description

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

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	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.