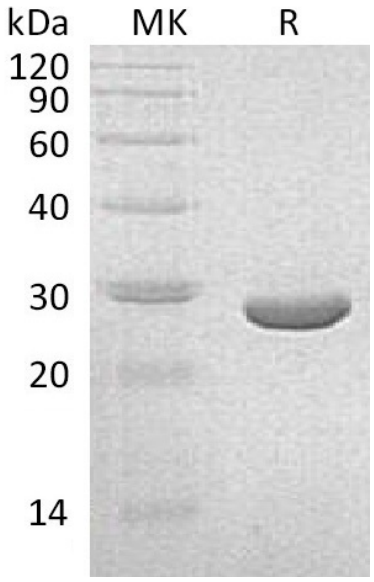
Product Name: Recombinant K. pneumoniae NEO
Catalog #: PEV1043

Summary

Name	Kanamycin kinase type II/NEO
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Klebsiella Pneumoniae Aminoglycoside 3-phosphotransferase is produced by our E.coli expression system and the target gene encoding Met1-Phe264 is expressed.
Accession #	P00552
Host	E.coli
Species	Klebsiella pneumoniae
Predicted Molecular Mass	29 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 6%Trehalose, 4%Mannitol, 0.05%Tween80, PH8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



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Alternative Names

Aminoglycoside 3-phosphotransferase; APH(3)-II; APH(3)II; Kanamycin kinase type II; Neomycin-kanamycin phosphotransferase type II; neo

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.

Note

For Research Use Only , Not for Diagnostic Use.