Recombinant Klebsiella pneumoniae NEO/Kanamycin kinase type II

Catalog No: CM66

Description	Recombinant Klebsiella pneumoniae Aminoglycoside 3'-phosphotransferase is produced by our E.coli expression system and the target gene encoding Met1-Phe264 is expressed.
Expression System	E.coli
Alternative name	Aminoglycoside 3'-phosphotransferase; APH(3')-II; APH(3')II; Kanamycin kinase type II; Neomycin-kanamycin phosphotransferase type II; neo
Accession No.	P00552
Predicted Molecular Weight	29kDa
Apparent Molecular Weight	28-30kDa, reducing conditions.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4, 20% Glycerol.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
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.
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.

SDS-PAGE