

NEO Protein, K. pneumoniae, Recombinant

General Information

Synonyms:	Kanamycin kinase type II; Neomycin-kanamycin phosphotransferase type II; APH(3')-II; Aminoglycoside 3'-phosphotransferase; APH(3')II; neo
Protein Construction:	Met1-Phe264
Species:	Klebsiella pneumoniae
Expression Host:	E. coli
Accession:	P00552
Molecular Weight:	26-30 KDa (reducing condition)
AA Sequence:	Met1-Phe264

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 6% Trehalose, 4% Mannitol, 0.05% Tween 80, PH8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

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