## Biochemistry of Antimicrobial Action (Science Paperbacks)

Revisiting the Nucleotide and Aminoglycoside Substrate Specificity of the Bifunctional Aminoglycoside Acetyltransferase(6')-le/Aminoglycoside Phosphotransferase(2")-la Enzyme

Hilary Frase, Marta Toth, and Sergei B. Vakulenko

d: The bifunctional AAC(6')-le/APH(2')-la enzyme was reported to phosphorytate at the sing ATP.

Find not ATP, is the cosubstrate of the enzyme. 4,5-disubstituted and atypical aminoplycosides are not substituted and atypical aminoplycosides are not substituted. The enzyme is a narrow spectrum GTP-dependent kinase that phosphorylates 4,6-disubstituted aminoplyc.

The enzyme is a narrow spectrum GTP-dependent kinase that phosphorylates 4,6-disubstituted aminoplyc. e: Knowledge of enzyme activity is essential for developing novel antibiotics and conducting effective antimi

infinitional aminoglycoside-modifying enzyme aminole acetyltransferase(6')-le/aminoglycoside phosphorase(2')-la, or AAC(6')-le/API(2')-la, is the major
of aminoglycoside resistance in Gram-positive bacterial
resistance in the previous studies, using ATP as the cosubstrate, it
may be a studies, using ATP as the cosubstrate, it
consists and the previous studies, using ATP as the cosubstrate, it
to inactivate an unusually broad spectrum of aminoglyincluding 4.6- and 4.5-disubstrated and atypical. We
demonstrated that GTP, and not ATP, is the preferred
rate of this enzyme. We now show, using competition
attended to the construction of the properties of the construction of the

To whom correspondence should be addressed: 417 Nieuwland Science Hall, Dept. of Chemistry and Biochemistry, Notre Dame, IN 46556, Tel.: 574-631-2935; Fax: 574-631-6652; E-mail: svakulen@nd.edu.

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