

nebramycin 5' synthase

Cat. No. EXWM-5666

Lot. No. (See product label)

Introduction

Description Requires Fe(III). The enzyme from the bacterium Streptoalloteichus tenebrarius

catalyses the activation of carbamoyl phosphate to O-carbamoyladenylate and the

subsequent carbamoylation of kanamycin and tobramycin.

Synonyms tobramycin carbamoyltransferase; TobZ

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.1.2.2

Reaction (1) tobramycin + carbamoyl phosphate + ATP + H2O = nebramycin 5' + AMP +

diphosphate + phosphate (overall reaction); (1a) carbamoyl phosphate + ATP +

H2O = diphosphate + O-carbamoyladenylate + phosphate; (1b) O-

carbamoyladenylate + tobramycin = AMP + nebramycin 5'; (2) kanamycin A + carbamoyl phosphate + ATP + H2O = 6''-O-carbamoylkanamycin A + AMP + diphosphate + phosphate (overall reaction); (2a) carbamoyl phosphate + ATP +

H2O = diphosphate + O-carbamoyladenylate + phosphate; (2b) O-

carbamoyladenylate + kanamycin A = AMP + 6"-O-carbamoylkanamycin A

Notes This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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