Creative Enzymes®

neamine transaminase

Cat. No. EXWM-2934

Lot. No. (See product label)

Introduction

Description	The reaction occurs in vivo in the opposite direction. Involved in the biosynthetic pathways of several clinically important aminocyclitol antibiotics, including kanamycin B, butirosin, neomycin and ribostamycin. Works in combination with EC 1.1.3.43, paromamine 6-oxidase, to replace the 6'-hydroxy group of paromamine with an amino group. The enzyme from the bacterium Streptomyces kanamyceticus can also catalyse EC 2.6.1.94, 2'-deamino-2'-hydroxyneamine transaminase, which leads to production of kanamycin A. The enzyme from the bacterium Streptomyces fradiae can also catalyse EC 2.6.1.95, leading to production of neomycin C.
Synonyms	glutamate-6'-dehydroparomamine aminotransferase; btrB (gene name); neoN (gene name); kacL (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.6.1.93
Reaction	neamine + 2-oxoglutarate = 6'-dehydroparomamine + L-glutamate
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

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.