Creative Enzymes®

16S rRNA (guanine1405-N7)-methyltransferase

Cat. No. EXWM-1777

Lot. No. (See product label)

Introduction

Description The enzyme from the antibiotic-producing bacterium Micromonospora zionensis specifically methylates guanine1405 at N7 in 16S rRNA, thereby rendering the ribosome resistant to 4,6-disubstituted deoxystreptamine aminoglycosides, which include gentamicins and kanamycins.

Synonyms methyltransferase Sgm; m7G1405 Mtase; Sgm Mtase; Sgm; sisomicin-gentamicin methyltransferase; sisomicin-gentamicin methylase; GrmA; RmtB; RmtC; ArmA

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.1.1.179

Reaction S-adenosyl-L-methionine + guanine1405 in 16S rRNA = S-adenosyl-L-homocysteine + N7-methylguanine1405 in 16S rRNA

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 ℃.