Creative Enzymes®

pikromycin synthase

Cat. No. EXWM-0784

Lot. No. (See product label)

Introduction

Description	A heme-thiolate protein (cytochrome P-450). Involved in the biosynthesis of a number of bacterial macrolide antibiotics containing a desosamine glycoside unit. With narbomycin it hydroxylates at either C-12 to give pikromycin or C-14 to give neopikromycin or both positions to give narvopikromycin. With 10-deoxymethymycin it hydroxylates at either C-10 to give methymycin or C-12 to give neomethymycin or both positions to give novamethymycin.
Synonyms	PikC; CYP107L1

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.185
Reaction	(1) narbomycin + NADPH + H+ + O2 = pikromycin + NADP+ + H2O; (2) narbomycin + NADPH + H+ + O2 = neopikromycin + NADP+ + H2O; (3) narbomycin + 2 NADPH + 2 H+ + 2 O2 = novapikromyin + 2 NADP+ + 2 H2O; (4) 10-deoxymethymycin + NADPH + H+ + O2 = methymycin + NADP+ + H2O; (5) 10-deoxymethymycin + NADPH + H+ + O2 = neomethymycin + NADP+ + H2O; (6) 10-deoxymethymycin + 2 NADPH + 2 H+ + 2 O2 = novamethymycin + 2 NADP+ + 2 H2O
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 ℃.