

narbonolide synthase

Cat. No. EXWM-2189

Lot. No. (See product label)

Introduction

Description The product, narbonolide, contains a 14-membered ring and is an intermediate in

the biosynthesis of narbonomycin and pikromycin in the bacterium Streptomyces venezuelae. The enzyme also produces 10-deoxymethynolide (see EC 2.3.1.239, 10-deoxymethynolide synthase). The enzyme has 29 active sites arranged in four polypeptides (pikAl - pikAlV) with a loading domain, six extension modules and a terminal thioesterase domain. Each extension module contains a ketosynthase (KS), keto reductase (KR), an acyltransferase (AT) and an acyl-carrier protein (ACP).

Not all active sites are used in the biosynthesis.

Synonyms pikromycin PKS

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.3.1.240

Reaction malonyl-CoA + 6 (2S)-methylmalonyl-CoA + 5 NADPH + 5 H+ = narbonolide + 7

CoA + 7 CO2 + 5 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

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

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