

tetracenomycin A2 monooxygenase-dioxygenase

Cat. No. EXWM-0802

Lot. No. (See product label)

Introduction

Description Isolated from the bacterium Streptomyces glaucescens. The enzyme was also

isolated from the bacterium Streptomyces olivaceus, where it acts on 8demethyltetracenomycin A2 (tetracenomycin B2) as part of elloramycin

biosynthesis. The reaction involves a monooxygenase reaction which is followed by a dioxygenase reaction giving a gem-diol and an epoxide. Water opens the epoxide giving two hydroxy groups. The gem-diol eliminates water to give a ketone which is

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then reduced to a hydroxy group.

Synonyms TcmG; ElmG; tetracenomycin A2,NAD(P)H:O2 oxidoreductase (tetracenomycin C

forming)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.200

Reaction tetracenomycin A2 + 2 O2 + 2 NAD(P)H + 2 H+ = tetracenomycin C + 2 NAD(P)+

+ 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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