

## 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 8-demethyltetracenomycin 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 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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