

pentalenolactone F synthase

Cat. No. EXWM-0654

Lot. No. (See product label)

Introduction

Description

Requires Fe(II) and ascorbate. Isolated from the bacteria *Streptomyces exfoliatus*, *Streptomyces arenae* and *Streptomyces avermitilis*. Part of the pentalenolactone biosynthesis pathway.

Synonyms

penD (gene name); pntD (gene name); ptlD (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.11.36

Reaction

pentalenolactone D + 2 2-oxoglutarate + 2 O₂ = pentalenolactone F + 2 succinate + 2 CO₂ + H₂O (overall reaction); (1a) pentalenolactone D + 2-oxoglutarate + O₂ = pentalenolactone E + succinate + CO₂ + H₂O; (1b) pentalenolactone E + 2-oxoglutarate + O₂ = pentalenolactone F + succinate + CO₂

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