

3-acetyloctanal synthase

Cat. No. EXWM-2028

Lot. No. (See product label)

Introduction

Description Requires thiamine diphosphate. The enzyme, characterized from the bacterium *Serratia marcescens*, participates in the biosynthesis of the antibiotic prodigiosin. The enzyme decarboxylates pyruvate, followed by attack of the resulting two-carbon fragment on (E)-oct-2-enal, resulting in a Stetter reaction. In vitro the enzyme can act on a number of α,β -unsaturated carbonyl compounds, including aldehydes and ketones, and can catalyze both 1-2 and 1-4 carboligations depending on the substrate.

Synonyms pigD (gene name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.2.1.12

Reaction pyruvate + (E)-oct-2-enal = (S)-3-acetyloctanal + 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.