

Recombinant Mycolicibacterium smegmatis Lactate 2-monooxygenase

Cat. No. EXWM-0617

Lot. No. (See product label)

Introduction

Description

In enzymology, a lactate 2-monooxygenase (EC 1.13.12.4) is an enzyme that catalyzes the chemical reaction (S)-lactate + O₂ ⇌ acetate + CO₂ + H₂O. Thus, the two substrates of this enzyme are (S)-lactate and O₂, whereas its 3 products are acetate, CO₂, and H₂O. This enzyme belongs to the family of oxidoreductases, specifically those acting on single donors with O₂ as oxidant and incorporation of two atoms of oxygen into the substrate (oxygenases). The oxygen incorporated need not be derived from O with incorporation of one atom of oxygen (internal monooxygenases or internal mixed-function oxidases).

Product Information

Species	Mycolicibacterium smegmatis
Source	E.coli
Form	Lyophilized powder
EC Number	EC 1.13.12.4
CAS No.	9028-72-2
Purity	Greater than 85% as determined by SDS-PAGE.
Activity	Not detected
Buffer	Tris/PBS-based buffer, 6% Trehalose, pH 8.0
Reaction	(S)-lactate + O ₂ = acetate + CO ₂ + H ₂ O
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 at -20°C/-80°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.
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