

4-hydroxy-2-oxoheptanedioate aldolase

Cat. No. EXWM-4889

Lot. No. (See product label)

Introduction

Description

Requires Co²⁺ or Mn²⁺ for activity. The enzyme is also able to catalyse the aldol cleavage of 4-hydroxy-2-oxopentanoate and 4-hydroxy-2-oxohexanoate, and can use 2-oxobutanoate as carbonyl donor, with lower efficiency. In the reverse direction, is able to condense a range of aldehyde acceptors with pyruvate. The enzyme from the bacterium *Escherichia coli* produces a racemic mixture of (4R)- and (4S)-hydroxy-2-oxoheptanedioate.

Synonyms

2,4-dihydroxyhept-2-enedioate aldolase; HHED aldolase; 4-hydroxy-2-ketoheptanedioate aldolase; HKHD aldolase; HpCH; Hpal; 4-hydroxy-2-oxoheptanedioate succinate semialdehyde lyase (pyruvate-forming)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.1.2.52

Reaction

4-hydroxy-2-oxoheptanedioate = pyruvate + succinate semialdehyde

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.