Creative Enzymes®

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; HpaI; 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.