

## 4-hydroxy-2-oxoheptanedioate aldolase

Cat. No. EXWM-4889

Lot. No. (See product label)

### Introduction

**Description** Requires Co<sup>2+</sup> or Mn<sup>2+</sup> 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.