Creative Enzymes®

4-hydroxy-2-oxovalerate aldolase

Cat. No. EXWM-4915

Lot. No. (See product label)

Introduction

Description	Requires Mn2+ for maximal activity. The enzyme from the bacterium Pseudomonas putida is also stimulated by NADH. In some bacterial species the enzyme forms a bifunctional complex with EC 1.2.1.10, acetaldehyde dehydrogenase (acetylating). The enzymes from the bacteria Burkholderia xenovorans and Thermus thermophilus also perform the reaction of EC 4.1.3.43, 4-hydroxy-2-oxohexanoate aldolase.
Synonyms	4-hydroxy-2-ketovalerate aldolase; HOA; DmpG; 4-hydroxy-2-oxovalerate pyruvate-lyase; 4-hydroxy-2-oxopentanoate pyruvate-lyase; BphI; 4-hydroxy-2-oxopentanoate pyruvate-lyase (acetaldehyde-forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.1.3.39
CAS No.	37325-52-3
Reaction	(S)-4-hydroxy-2-oxopentanoate = acetaldehyde + pyruvate
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 ℃.