Creative Enzymes®

4-hydroxy-4-methyl-2-oxoglutarate aldolase

Cat. No. EXWM-4902

Lot. No. (See product label)

Introduction

Description	Requires a divalent metal ion. This enzyme participates in the degradation of protocatechuate (via the meta-cleavage pathway), phthalate, syringate and gallate. The enzyme from Pseudomonas ochraceae can also cleave 4-hydroxy-2-oxoglutarate to glyoxylate and pyruvate, and also catalyses the reaction of EC 4.1.1.3 (oxaloacetate decarboxylase).
Synonyms	pyruvate aldolase; γ-methyl-γ-hydroxy-α-ketoglutaric aldolase; 4-hydroxy-4-methyl-2-ketoglutarate aldolase; 4-hydroxy-4-methyl-2-oxoglutarate pyruvate-lyase; HMG aldolase; CHA aldolase; 4-carboxy-4-hydroxy-2-oxoadipate aldolase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.1.3.17
CAS No.	37290-65-6
Reaction	(1) 4-hydroxy-4-methyl-2-oxoglutarate = 2 pyruvate; (2) 2-hydroxy-4-oxobutane-1,2,4-tricarboxylate = oxaloacetate + 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 ℃.