Creative Enzymes®

4-hydroxy-tetrahydrodipicolinate synthase

Cat. No. EXWM-5308

Lot. No. (See product label)

Introduction

Description	Studies of the enzyme from the bacterium Escherichia coli have shown that the reaction can be divided into three consecutive steps: Schiff base formation between pyruvate and an active-site lysine, the addition of L-aspartate-semialdehyde, and finally transimination leading to cyclization with simultaneous dissociation of the product.
Synonyms	dihydrodipicolinate synthase (incorrect); dihydropicolinate synthetase (incorrect); dihydrodipicolinic acid synthase (incorrect); L-aspartate-4-semialdehyde hydro-lyase (adding pyruvate and cyclizing); dapA (gene name).

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.3.3.7
Reaction	pyruvate + L-aspartate-4-semialdehyde = (2S,4S)-4-hydroxy-2,3,4,5-tetrahydrodipicolinate + H2O
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 ℃.