Creative Enzymes®

3-hydroxy-D-aspartate aldolase

Cat. No. EXWM-4918

Lot. No. (See product label)

Introduction

Description	A pyridoxal-phosphate protein. The enzyme, purified from the bacterium Paracoccus denitrificans IFO 13301, is strictly D-specific as to the α-position of the substrate, but accepts both the threo and erythro forms at the β-position. The erythro form is a far better substrate (about 100-fold). The enzyme can also accept D-allothreonine, D-threonine, erythro-3-phenyl-D-serine and threo-3-phenyl-D-serine. Different from EC 4.1.3.14, erythro-3-hydroxy-L-aspartate aldolase. Requires a divalent cation, such as Mg2+, Mn2+ or Co2+.
Synonyms	D-3-hydroxyaspartate aldolase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.1.3.41
Reaction	(1) threo-3-hydroxy-D-aspartate = glycine + glyoxylate; (2) D-erythro-3-hydroxyaspartate = glycine + glyoxylate
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 ℃.