Creative Enzymes®

diaminobutyrate-2-oxoglutarate transaminase

Cat. No. EXWM-2916

Lot. No. (See product label)

Introduction

Description	A pyridoxal-phosphate protein that requires potassium for activity.In the proteobacterium Acinetobacter baumannii, this enzyme is cotranscribed with the neighbouring ddc gene that also encodes EC 4.1.1.86, diaminobutyrate decarboxylase. Differs from EC 2.6.1.46, diaminobutyrate-pyruvate transaminase, which has pyruvate as the amino-group acceptor. This is the first enzyme in the ectoine-biosynthesis pathway, the other enzymes involved being EC 2.3.1.178, diaminobutyrate acetyltransferase and EC 4.2.1.108, ectoine synthase.
Synonyms	L-2,4-diaminobutyrate:2-ketoglutarate 4-aminotransferase; 2,4-diaminobutyrate 4-aminotransferase; diaminobutyrate aminotransferase; DABA aminotransferase; DAB aminotransferase; EctB; diaminibutyric acid aminotransferase; L-2,4-diaminobutyrate:2-oxoglutarate 4-aminotransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.6.1.76
CAS No.	196622-96-5
Reaction	L-2,4-diaminobutanoate + 2-oxoglutarate =L-aspartate 4-semialdehyde + L-glutamate
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 ℃.