

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; diaminobutyric 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.