

aminobutyraldehyde dehydrogenase

Cat. No. EXWM-1124

Lot. No. (See product label)

Introduction

Description

The enzyme from some species exhibits broad substrate specificity and has a marked preference for straight-chain aldehydes (up to 7 carbon atoms) as substrates. The plant enzyme also acts on 4-guanidinobutanal (cf. EC 1.2.1.54 γ -guanidinobutyraldehyde dehydrogenase). As 1-pyrroline and 4-aminobutanal are in equilibrium and can be interconverted spontaneously, 1-pyrroline may act as the starting substrate. The enzyme forms part of the arginine-catabolism pathway and belongs in the aldehyde dehydrogenase superfamily.

Synonyms

γ -guanidinobutyraldehyde dehydrogenase (ambiguous); ABAL dehydrogenase; 4-aminobutyraldehyde dehydrogenase; 4-aminobutanal dehydrogenase; γ -aminobutyraldehyde dehydrogenase; 1-pyrroline dehydrogenase; ABALDH; YdcW

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.2.1.19

CAS No.

9028-98-2

Reaction

4-aminobutanal + NAD⁺ + H₂O = 4-aminobutanoate + NADH + 2 H⁺

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.