Creative Enzymes®

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 dehydroganase; 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.