Creative Enzymes®

Recombinant Clostridium kluyveri NAD-dependent 4-hydroxybutyrate dehydrogenase

Cat. No. EXWM-0347

Lot. No. (See product label)

Introduction

Description	This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+ or NADP+ as acceptor. The systematic name of this enzyme class is 4-hydroxybutanoate:NAD+ oxidoreductase. This enzyme is also called gamma-hydroxybutyrate dehydrogenase. This enzyme participates in butanoate metabolism and the degradation of the neurotransmitter 4-hydroxybutanoic acid.

Product Information

Species	Clostridium kluyveri
Source	E.coli
Form	Liquid or Lyophilized powder
EC Number	EC 1.1.1.61
CAS No.	9028-60-8
Molecular Weight	49.2 kDa
Purity	Greater than 85% as determined by SDS-PAGE.
Activity	Not detected
Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Reaction	4-hydroxybutanoate + NAD+ = succinate semialdehyde + NADH + 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 at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.