Creative Enzymes®

Alanine-Valine transaminase (Crude Enzyme)

Cat. No. NATE-1821

Lot. No. (See product label)

Introduction

Description	Branched chain aminotransferase is an aminotransferase enzyme which acts upon branched-chain amino acids. It uses largely α-ketoglutarate in forming branched chain α-keto acids and glutamate. The biological function of branched chain aminotransferases (BCAT) is to catalyse the synthesis or degradation of the branched chain amino acids leucine, isoleucine, and valine. In humans, branched chain amino acids are essential and are degraded by BCATs. This product with the indicated enzyme activity was briefly purified from engineered E. coli.
Applications	nutrition
Synonyms	Transaminase B; branched-chain amino acid aminotransferase; branched-chain amino acid-glutamate Transaminase; branched-chain aminotransferase; L-branched chain amino acid aminotransferase; glutamate-branched-chain amino acid Transaminase

Product Information

Source	E. coli
Appearance	Clear to translucent yellow solution
EC Number	EC 2.6.1.42
CAS No.	9054-65-3
Activity	Undetermined
Reaction	L-leucine + 2-oxoglutarate = 4-methyl-2-oxopentanoate + L-glutamate
Notes	Since this product needs to be freshly prepared, it will take about 2 weeks after you confirm the order. Each time of the freeze-thawing may cause partial inactivation. Therefore, it should be dispensed as required and stored at -20 ° C or lower. With the preservation of the extension of time, the enzyme activity will decline to a certain extent, so the product should be used as soon as possible. This product may have turbidity or precipitation in the production and preservation process, it can be mixed after melting and will not affect the normal use. This product is limited to scientific research use, shall not be used for clinical diagnosis or treatment, shall not be used for food or medicine, shall not be stored in ordinary residential. For your safety and health, please wear an experimental suit and wear disposable gloves.

Usage and Packaging

Package	100ml

Storage and Shipping Information

Storage	at -20 °C or lower, for at least 1 month.