

D-Amino Acid Transaminase from *Bacillus subtilis*, Recombinant

Cat. No. NATE-1095

Lot. No. (See product label)

Introduction

Description A pyridoxal-phosphate protein. The enzyme from thermophilic *Bacillus* species acts on many D-amino acids with D-alanine and D-2-aminobutyrate as the best amino donors. It can similarly use any of several 2-oxo acids as amino acceptor, with 2-oxoglutarate and 2-oxobutyrate among the best. The enzyme from some other sources has a broader specificity.

Synonyms D-aspartate transaminase; D-alanine aminotransferase; D-aspartic aminotransferase; D-alanine-D-glutamate transaminase; D-alanine transaminase; D-amino acid aminotransferase

Product Information

Source *Bacillus subtilis*

Form Liquid

EC Number EC 2.6.1.21

CAS No. 37277-85-3

Molecular Weight ~ 33.3kD

Activity ~ 65 KU/mg protein

Unit Definition One Unit is defined as the amount of enzyme required to produce one μ mole of D-glutamate per minute from α -ketoglutaric acid in the presence of NADH at pH 7.5 and 25°C.

Storage and Shipping Information

Storage 4°C