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Certificate of Analysis and Data Sheet

Recombinant Human Alanine Aminotransferase

Catalog No. Source: 228-10043 Escherichia Coli

Synonyms

ALT1, Glutamic-pyruvic transaminase 1, GPT 1, Glutamic-alanine transaminase 1, AAT1, ALT, ALAT, SGPT.

Introduction

Alanine transaminase or ALT is a transaminaseenzyme.

ALT is found in serumand in various bodily tissues, but is most commonly associated with the liver; It catalyzes the transfer of an aminogroup from alanineto a-ketoglutarate, the products of this reversible transamination being pyruvateand glutamatealanine+?-ketoglutarate? pyruvate+ glutamate It is commonly measured clinically as a part of a diagnostic liver function test, to determine liver health. It is also called serum glutamate pyruvate transaminase (SGPT) or alanine aminotransferase (ALAT). Diagnostically, it is almost always measured in units/litre (U/L).

Description

Alanine Aminotransferase Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing having a molecular mass of 54,479 Dalton.

The ALT is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile liquid formulation.

Formulation

The protein was dialyzed against 40mM sodium acetate buffer (pH 5.5), 1mM DTT,1mM EDTA, 5mM 2-oxoglutarate and 0.1mM pyridoxal-5'-phosphate.

Stability

AAT1 although stable at 10°C for 5 days, should be stored desiccated below -18°C.

Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Biological Activity

The specific activity was found to be 1,000 U/mg.

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.