
Product Data Sheet

Product Name: GPT Human, Active
 Cat. No.: GP21719
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alanine aminotransferase 1; ALT1; EC 2.6.1.2; Glutamate pyruvate transaminase 1; GPT 1; Glutamic--alanine transaminase 1; Glutamic--pyruvic transaminase 1; GPT; AAT1; GPT1.		
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.		

Introduction

Alanine transaminase or ALT is a transaminase enzyme. ALT is found in serum and in various bodily tissues, but is most commonly associated with the liver; It catalyzes the transfer of an amino group from alanine to α -ketoglutarate, the products of this reversible transamination reaction being pyruvate and glutamate. $\text{alanine} + \alpha\text{-ketoglutarate} = \text{pyruvate} + \text{glutamate}$. 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).

Biological Activity

The specific activity was found to be 1,020 U/mg.

Stability

AAT1 although stable at 10°C for 5 days, should be stored below -18°C. Please prevent freeze-thaw cycles.

Background

Alanine Aminotransferase Human Recombinant produced in E. Coli is a homodimer, non-

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glycosylated, polypeptide chain containing 495a.a and having a molecular mass of 54,479 Dalton. The amino acid sequence is the same as that of native form of human liver ALT. The ALT is purified by proprietary chromatographic techniques.

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