

Native Human GPT

Cat. No. GPT-26882TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length Alanine Transaminase from human heart.
Species	Human
Description	This gene encodes cytosolic alanine aminotransaminase 1 (ALT1); also known as glutamate-pyruvate transaminase 1. This enzyme catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate and, therefore, plays a key role in the intermediary metabolism of glucose and amino acids. Serum activity levels of this enzyme are routinely used as a biomarker of liver injury caused by drug toxicity, infection, alcohol, and steatosis. A related gene on chromosome 16 encodes a putative mitochondrial alanine aminotransaminase.
Tissue specificity	Liver, kidney, heart, and skeletal muscles. Expressed at moderate levels in the adipose tissue.
Biological activity	Specific activity: 29 U/mg protein.
Form	Lyophilised
Storage buffer	Preservative: None Constituents: 100mM Sodium chloride, 10mM Tris HCl, 1mM EDTA, 1mM DTE, 10mM alpha-Ketoglutarate, 20µg/ml Pyridoxal-5-phosphate, pH 7.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Sequence Similarities	Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Alanine aminotransferase subfamily.
Full Length	Full L.
GENE INFORMATION	
Gene Name	GPT glutamic-pyruvate transaminase (alanine aminotransferase) [Homo sapiens]
Official Symbol	GPT
Synonyms	GPT; glutamic-pyruvate transaminase (alanine aminotransferase); alanine aminotransferase 1; ALT1; GPT1;
Gene ID	2875
mRNA Refseq	NM_005309
Protein Refseq	NP_005300
MIM	138200
Uniprot ID	P24298
Chromosome Location	8q24.2-qter
Pathway	Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Metabolic pathways,

organism-specific biosystem;

Function

1-aminocyclopropane-1-carboxylate synthase activity; L-alanine:2-oxoglutarate aminotransferase activity; L-alanine:2-oxoglutarate aminotransferase activity; pyridoxal phosphate binding; transaminase activity;

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