

Native Human GPT

Cat. No. GPT-26879TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native mature human Alanine Transaminase protein.
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.
Form	Liquid
Purity	Ammonium Sulphate Precipitation
Storage buffer	Constituent:41% Ammonium sulphate
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence	Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family.

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Similarities	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;

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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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