

Active Recombinant Human GPT

Cat. No. GPT-33H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPT was expressed in E.coli.
Species	Human
Source	E.coli
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.
Molecular Mass	54,479 of subunit deduced from gene sequence
Form	Liquid with Bufferized solution
Purity	Single major band visualized
Activity	Typically >1,000 u/mL
Applications	Calibrator/Control for ALT activity assay, Standard antigen for Immunoblotting, Standard antigen for ELISA.

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Storage	-20 oC
OfficialSymbol	GPT
GENE INFORMATION	
Gene Name	GPT glutamic-pyruvate transaminase (alanine aminotransferase) [Homo sapiens]
Synonyms	GPT; glutamic-pyruvate transaminase (alanine aminotransferase); AAT1; ALT1; GPT1; Alanine aminotransferase 1; Glutamic--pyruvic transaminase 1; Glutamate pyruvate transaminase 1; EC 2.6.1.2; glutamic pyruvate transaminase
Gene ID	2875
mRNA Refseq	NM_005309
Protein Refseq	NP_005300
MIM	138200
UniProt ID	P24298
Chromosome Location	8q24.3
Pathway	Alanine, aspartate and glutamate metabolism; Alanine and aspartate metabolism; Metabolism; alanine biosynthesis II; Metabolism of amino acids
Function	L-alanine:2-oxoglutarate aminotransferase activity; pyridoxal phosphate binding

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