

Active Native Porcine Glutamate Pyruvate Transaminase (GPT), Alanine Transaminase (ALT)

Cat. No. GPT-189P Lot. No. (See product label)

SPECIFICATION

Product Overview	Native Porcine GPT was purified from Porcine Heart.
Species	Porcine
Source	Porcine Heart
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.
Form	Lyophilized from tris-HCl, sodium chloride, EDTA, DTE, a-ketoglutarate and phridoxal-5-phosphate
Bio-activity	> 80 U/mg protein
Molecular Mass	~100 kDa
Unit Definition	One unit will catalyze the transamination of one micromole per minute of L-alanine to a-ketoglutarate, forming L-glutamate and pyruvate, at 37 centigrade and pH 7.4.

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Storage	Store at -20 centigrade
Concentration	> 0.8 mg protein/mg solid (A280)
Reconstitution	Clear, yellow-green in 10 mg/mL saline.
GENE INFORMATION	
Gene Name	GPT glutamic-pyruvate transaminase (alanine aminotransferase) [<i>Sus scrofa</i>]
Official Symbol	GPT
Synonyms	glutamic-pyruvate transaminase (alanine aminotransferase)
Gene ID	100524618
mRNA Refseq	
Protein Refseq	
MIM	
UniProt ID	
Chromosome Location	chromosome: 4
Pathway	2-Oxocarboxylic acid metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Arginine biosynthesis, organism-specific biosystem

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