

Native Human Glutamic-Pyruvate Transaminase (alanine aminotransferase)

Cat. No. GPT-5344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human GPT is prepared from Human Liver.
Species	Human
Source	Human Liver
Description	GPT is an enzyme that catalyzes the reversible transfer of an amino group from alanine to α -ketoglutarate. Human GPT is found in serum and in various body tissues but is most commonly associated with the liver.
Form	Ammonia Sulphate suspension.
Molecular Weight	100 kDa
Specific Activity	>10 U/mg protein
Endotoxin Level	< 0.1 ng/ug of protein
Biological Activity	> 50 U/ml at 37°C. One unit will catalyze the transamination of one micromole of L-alanine to α -ketoglutarate, forming L-glutamate and pyruvate per minute at 37°C and pH 7.8. Measured at 340 nm as one equimolar amount of NAD produced by coupled reaction.
Storage	Store at 2-4°C. Stable for 1 year.

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Pathways

Alanine, aspartate and glutamate metabolism; Biosynthesis of alkaloids derived from ornithine, lysine and nicotinic acid; Carbon fixation in photosynthetic organisms; Metabolic pathways; Metabolism of amino acids

GENE INFORMATION

Gene Name [GPT glutamic-pyruvate transaminase \(alanine aminotransferase\) \[Homo sapiens \]](#)

Official Symbol [GPT](#)

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

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

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