

Recombinant Human GPT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GPT-4845H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GPT MS Standard C13 and N15-labeled recombinant protein (NP_005300) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	54.6 kDa
AA Sequence	MASSTGDRSQAVRHGLRAKVLTL DGMNPRVRRVEYAVRGPIVQRALELEQELRQG VKKPFTEVIRANIGDAQAMGQRPITFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQ ACGGHSLGAYSVSSGIQLIREDVARYIERRDGGIPADPNNVFLSTGASDAIVTVLKLL VAGEGHTRTGVLIPQYPLYSATLAELGAVQVDYYLDEERAWALDVAELHRALGQA RDHCRPRALCVINPGNPTGQVQTRECIEAVIRFAFEERLFLLADEVYQDNVYAAGSQ

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FHSFKKVLMEMGPPYAGQQELASFHSTSKGYMGECGFRGGYVEVVNMDAAVQQQ
MLKLMSVRLCPPVPGQALLDLVVSPAPTDPSTFAQFQAEKQAVLAELAALKALTEQV
FNEAPGISCNPVQGAMYSFPRVQLPPRAVERAQELGLAPDMFFCLRLLEETGICVVP
GSGFGQREGTYHFRMTILPPLEKLRLLEKLSRFHAKFTLEYSTRTRPLEQKLISEED
LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [GPT glutamic--pyruvic transaminase \[Homo sapiens \(human\) \]](#)

Official Symbol [GPT](#)

Synonyms GPT; glutamic-pyruvate transaminase (alanine aminotransferase); alanine aminotransferase 1; ALT1; GPT1; GPT 1; glutamic-alanine transaminase 1; glutamic--alanine transaminase 1; glutamic--pyruvic transaminase 1; glutamate pyruvate transaminase 1; AAT1;

Gene ID [2875](#)

mRNA Refseq [NM_005309](#)

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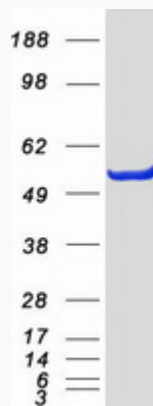
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Protein Refseq NP_005300

MIM 138200

UniProt ID P24298

SDS-PAGE



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