Recombinant Full Length Human GPT Protein, C-Flag-tagged

Cat. No. GPT-1066HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GPT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.5 kDa
AA Sequence	MASSTGDRSQAVRHGLRAKVLTLDGMNPRVRRVEYAVRGPIVQRALELEQELRQG VKKPFTEVIRANIGD AQAMGQRPITFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQ ACGGHSLGAYSVSSGIQLIREDVARYI ERRDGGIPADPNNVFLSTGASDAIVTVLKLL VAGEGHTRTGVLIPIPQYPLYSATLAELGAVQVDYYLDE ERAWALDVAELHRALGQ ARDHCRPRALCVINPGNPTGQVQTRECIEAVIRFAFEERLFLLADEVYQDNVY AAGS

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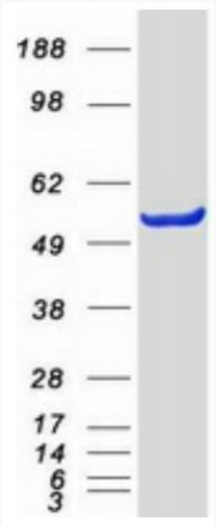
	QFHSFKKVLMEMGPPYAGQQELASFHSTSKGYMGECGFRGGYVEVVNMDAAVQQ QMLKLMSVRLCP PVPGQALLDLVVSPPAPTDPSFAQFQAEKQAVLAELAAKAKLTE QVFNEAPGISCNPVQGAMYSFPRVQL PPRAVERAQELGLAPDMFFCLRLLEETGIC VVPGSGFGQREGTYHFRMTILPPLEKLRLLLEKLSRFHAK FTLEYSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alanine, aspartate and glutamate metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	GPT glutamic--pyruvic transaminase [Homo sapiens (human)]
Official Symbol	GPT
Synonyms	ALT; AAT1; ALT1; GPT1; SGPT

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Gene ID	2875
mRNA Refseq	NM_005309.3
Protein Refseq	NP_005300.1
MIM	138200
UniProt ID	P24298



Coomassie blue staining of purified GPT protein.

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