

Recombinant Human Glutamic-Pyruvate Transaminase (Alanine Aminotransferase), His-tagged

Cat. No. GPT-1283H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GPT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	GPT, also known as alanine aminotransferases (ALT1), catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. This protein plays a key role in the intermediary metabolism of glucose and amino acids. It is widely used as an index of liver integrity or hepatocellular damage in clinical settings.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 2mM DTT
Molecular Weight	56.8 kDa (516aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MASSTGDRSQ AVRHGLRAKV LTLDGMNPRV RRVEYAVRGP IVQRALELEQ ELRQGVKKPF TEVIRANIGD AQAMGQRPIT FLRQVLALCV NPDLLSSPNF PDDAKKRAER ILQACGGHSL GAYSVSSGIQ

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LIREDVARYI ERRDGGIPAD PNNVFLSTGA SDAIVTVLKL LVAGEGHTRT
 GVLIPQYP LYSATLAELG AVQVDYYLDE ERAWALDVAE LHRALGQARD
 HCRPRALCVI NPGNPTGQVQ TRECIEAVIR FAFEERLFL ADEVYQDNVY
 AAGSQFHSFK KVLMEMGPPY AGQQELASFH STSKGYMGEC GFRGGYVEVV
 NMDAAVQQQM LKLMSVRLCP PVPQGALLDL VVSPAPTDP SFAQFQAEKQ
 AVLAEAAKA KLTEQVFNEA PGISCNPVQG AMYSFPRVQL PPRAVERAQE
 LGLAPDMFFC LRLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPLEKLRL
 LEKLSRFHAK FTLEYS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Alanine; Biosynthesis of alkaloids derived from ornithine; 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

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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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