

Active Recombinant Full Length Human GPT Protein, 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	E.coli
ProteinLength	1-496 aa
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 in 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT
Bio-activity	Specific activity is > 100 unit/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37 centigrade.
Molecular Mass	56.8 kDa (516aa) confirmed by MALDI-TOF
AASequence	MASSTGDRSQAVRHGLRAKVLTLDGMPNPRVRRVEYAVRGPIVQRALELEQELRQG VKKPFTEVIRANIGDAQAMGQRPITFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQ

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ACGGHSLGAYSVSSGIQLIREDVARYIERRDGGIPADPNNVFLSTGASDAIVTVLKLL
 VAGEGHTRTGVLIPQYPLYSATLAELGAVQVDYYLDEERAWALDVAELHRALGQA
 RDHCRPRALCVINPGNPTGQVQTRECIEAVIRFAFEERLFLLADEVYQDNVYAAGSQ
 FHSFKKVLMMEMGPPYAGQQELASFHSTSKGYMGECGFRGGYVEVVNMDAAVQQQ
 MLKLMSVRLCPPVPGQALLDLVSPAPTDPSSFAQFQAEKQAVLAELAALKLTEQV
 FNEAPGISCNPVQGAMYSFPRVQLPPRAVERAQELGLAPDMFFCLRLLEETGICVVP
 GSGFGQREGTYHFRMTILPPLEKLRLLEKLSRFHAKFTLEYS

Purity > 95% by SDS-PAGE

Applications SDS-PAGE, Enzyme Activity

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/mL (determined by Bradford assay)

Protein Refseq-Weblink www.ncbi.nlm.nih.gov/protein/NP_005300.1

GENE INFORMATION

Gene Name GPT glutamic-pyruvate transaminase (alanine aminotransferase) [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;

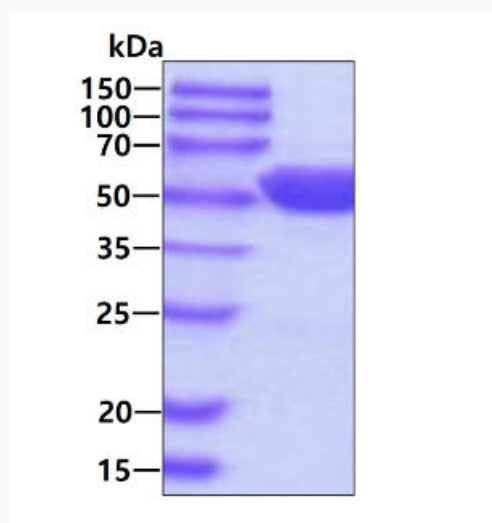
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Gene ID	2875
mRNA Refseq	NM_005309
MIM	138200
UniProt ID	P24298

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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