

Active Recombinant Human GPT2 protein, His-tagged

Cat. No. GPT2-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GPT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Alanine aminotransferase 2, also known as GPT2, catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Subsequently, they play a key role in the intermediary metabolism of glucose and amino acids. GPT2 expression is high in muscle, fat and kidney.
Form	Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 30% glycerol, 2mM DTT, 0.2M NaCl
Bio-activity	Specific activity is >100units/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 37C
Molecular Mass	60.3 kDa (546aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMQRAAAL VRRGCGPRTP SSWGRSQSSA AAEASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGPIVLKAGEIEL ELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF PEDAKKRARR ILQACGGNSL GSYSASQGVN CIREDVAAYI TRRDGGVPAD PDNIYLTGTA SDGISTILKI LVSGGGKSRT GVMIPQYP LYSAVISELD

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AIQVNYYLDE ENCWALNVNELRRRAVQEAKD HCDPKVLCII NPGNPTGQVQ
 SRKCIEDVIH FAWEEKLFLL ADEVYQDNVY SPDCRFHSFK KVL YEMGPEY
 SSNVELASFH STSKGYMGEC GYRGGYMEVI NLHPEIKGQL VKLLSVRLCP
 PVSGQAAMDI VVNPPVAGEE SFEQFSREKE SVLGNLAKKA
 KLTEDLFNQVPGIHCNPLQG AMYAFPRIFI PAKAVEAAQA HQMAPDMFYC
 MKLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPVEKLKTV LQKVKDFHIN FLEKYA

Purity >90% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name GPT2 glutamic pyruvate transaminase (alanine aminotransferase) 2 [Homo sapiens]

Official Symbol GPT2

Synonyms GPT2; glutamic pyruvate transaminase (alanine aminotransferase) 2; alanine aminotransferase 2; ALT2; GPT 2; glutamic--alanine transaminase 2; glutamic--pyruvic transaminase 2; glutamic-pyruvate transaminase 2; glutamate pyruvate transaminase 2;

Gene ID 84706

mRNA Refseq NM_001142466

Protein Refseq NP_001135938

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MIM	138210
UniProt ID	Q8TD30
Chromosome Location	16q12.1
Pathway	Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; alanine biosynthesis II, conserved biosystem;
Function	L-alanine:2-oxoglutarate aminotransferase activity; L-alanine:2-oxoglutarate aminotransferase activity; pyridoxal phosphate binding; transaminase activity;