

## Recombinant Human GPT2, His-tagged

**Cat. No.** GPT2-7214H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GPT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	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.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 30% glycerol 0.2M NaCl, 2mM DTT
<b>molecular mass</b>	60.3kDa (546aa)
<b>aa sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMQRAAAL VRRGCGP RTP SSWGRSQSSA AAEASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGP IVLKAGEIEL

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ELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF  
 PEDAKKRARR ILQACGGNSL GSYSASQGVN CIREDVAAYI TRRDGGVPAD  
 PDNIYLTTGA SDGISTILKI LVSGGGKSRT GVMIPQYP LYSAVISELD  
 AIQVNYLDE ENCWALNVNE LRAVQEAKD HCDPKVLCII NPGNPTGQVQ  
 SRKCIEDVIH FAWEEKLFL L ADEVYQDNVY SPDCRFHSFK KVLVEMGPEY  
 SSNVELASFH STSKGYMGEC GYRGGYMEVI NLHPEIKGQL VKLLSVRLCP  
 PVSGQAAMDI VVNPPVAGEE SFEQFSREKE SVLGNLAKKA KLTEDLFNQV  
 PGIHCNPLQG AMYAFPRIFI PAKAVEAAQA HQMAPDMFYC MKLLEETGIC  
 VVPGSGFGQR EGTYHFRMTI LPPVEKLKTV LQKVKDFHIN FLEKYA

**purity** >90% by SDS - PAGE

**applications** SDS-PAGE

**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.

**concentration** 0.5 mg/ml

## 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](#)

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<b>mrna refseq</b>	NM_001142466
<b>protein refseq</b>	NP_001135938
<b>mim</b>	138210
<b>uniprot id</b>	Q8TD30
<b>chromosome location</b>	16q12.1
<b>pathway</b>	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;
<b>function</b>	L-alanine:2-oxoglutarate aminotransferase activity; L-alanine:2-oxoglutarate aminotransferase activity; pyridoxal phosphate binding; transaminase activity;

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