

Recombinant Human GPT2, His-tagged

Cat. No. GPT2-7214H **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.
source	E. coli
species	Human
tag	His
form	Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 30% glycerol 0.2M NaCl, 2mM DTT
molecular mass	60.3kDa (546aa)
aa sequence	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
 PDNIYLTGTA SDGISTILKI LVSGGGKSRT GVMIPQYP LYSAVISELD
 AIQVNYLDE ENCWALNVNE LRAVQEAKD HCDPKVLCII NPGNPTGQVQ
 SRKCIEDVIH FAWEEKLFLL 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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mrna refseq	NM_001142466
protein refseq	NP_001135938
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;