

# GPT2 Human, Glutamic-Pyruvate Transaminase 2 Human Recombinant Protein, Active

Catalog Number: PROTQ8TD30-1

## Introduction

Alanine aminotransferase 2 (GPT2), catalyzes the reversible transamination among alanine and 2-oxoglutarate to create pyruvate and glutamate. GPT2 expressed mainly in muscle, fat and kidney and participates in the intermediary metabolism of glucose and amino acids. Multiple transcript variants encoding various isoforms have been found for GPT2.

## Overview

Product Name	GPT2 Human, Glutamic-Pyruvate Transaminase 2 Human Recombinant Protein, Active
Description	GPT2 Human Recombinant produced in E. coli is a single polypeptide chain containing 546 amino acids (1-523) and having a molecular mass of 60.3 kDa. GPT2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Size	2ug, 10ug, 100ug
Tag	
Form	Sterile Filtered colorless solution.
Source	E.coli.
Formulation	The GPT2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH7.5), 30% glycerol, 2mM DTT, 0.2M NaCl.

## Concentration

## Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

## Purity

Greater than 90% as determined by SDS-PAGE.

## Amino Acid Sequence

MGSSHHHHHHSSGLVPRGSH MGSMQRAAALVRRGCGPRTP SSWGRSQSSA AAASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGP  
IVLKAGEIELELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF PEDAkkRARR ILQACGGNSLGSYASQGVN CIREdVAAYI

TRRDGGVPAD PDNIYLTGA SDGISTILKI LVSGGGSRT GVMIPQYPLYSAVISELD AIQVNYLDE ENCWALNVNE LRRAVQEAKD  
HCDPKVLCII NPGNPTGQVQ SRKCIEDVIHFAWEEKLFL ADEVYQDNVY SPDCRFHSFK KVL YEMGPEY SSNVELASFH STSKGYMGEC  
GYRGGYMEVINLHPEIKGQL VKLLSVRLCP PVSGQAAMD I VVNPPVAGEE SFEQFSREKE SVLGNLAKKA KLTEDLFNQV  
PGIHCNPLQGAMYAFPRIFI PAKAVEAAQA HQMAPDMFYC MKLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPVEKLKTVLQKVKDFHIN FLEKYA.

## Biological 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. [?/description\\_after\\_attributes?](#)

## Usage

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