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## Recombinant human ALT2/GPT2 protein

Catalog Number: ATGP1914

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-523aa

#### **UniProt No.**

**08TD30** 

#### **NCBI Accession No.**

NP 597700.1

#### **Alternative Names**

Alanine aminotransferase 2, Glutamate pyruvate transaminase 2, GPT 2, Glutamic--alanine transaminase 2, Glutamic--pyruvic transaminase 2, AAT2, ALT2

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

60.3 kDa (546aa)

## **Concentration**

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 30% glycerol 0.2M NaCl, 2mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

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

## **BACKGROUND**

### **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. Recombinant human GPT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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## **Amino acid Sequence**

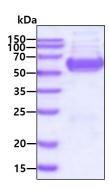
<MGSSHHHHHH SSGLVPRGSH MGS>MQRAAAL VRRGCGPRTP SSWGRSQSSA AAEASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGP IVLKAGEIEL ELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF PEDAKKRARR ILQACGGNSL GSYSASQGVN CIREDVAAYI TRRDGGVPAD PDNIYLTTGA SDGISTILKI LVSGGGKSRT GVMIPIPQYP LYSAVISELD AIQVNYYLDE ENCWALNVNE LRRAVQEAKD HCDPKVLCII NPGNPTGQVQ SRKCIEDVIH FAWEEKLFLL ADEVYQDNVY SPDCRFHSFK KVLYEMGPEY SSNVELASFH STSKGYMGEC GYRGGYMEVI NLHPEIKGQL VKLLSVRLCP PVSGQAAMDI VVNPPVAGEE SFEQFSREKE SVLGNLAKKA KLTEDLFNQV PGIHCNPLQG AMYAFPRIFI PAKAVEAAQA HQMAPDMFYC MKLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPVEKLKTV LQKVKDFHIN FLEKYA

#### **General References**

Sohocki M M., et al. (1997) Genomics. 40:247-252 Matthews C C., et al. (2003) Hepatology. 39: 1297-1302.

## **DATA**

#### **SDS-PAGE**



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

