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# **Recombinant mouse ALT2/GPT2 protein**

Catalog Number: ATGP3881

### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-522aa

#### **UniProt No.**

O8BGT5

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

NP 776291

#### **Alternative Names**

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

### **PRODUCT SPECIFICATION**

# **Molecular Weight**

60.1 kDa (542aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by absorbance at 280nm)

#### **Formulation**

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

#### **Purity**

> 85% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# **Biological Activity**

Specific activity is > 50unit/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minuteat pH7.5 at 37C.

# Tag

His-Tag

# **Application**

SDS-PAGE, Enzyme Activity

#### **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.



# Recombinant mouse ALT2/GPT2 protein

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## **BACKGROUND**

## **Description**

ALT2/GPT2, also known as alanine aminotransferase, 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. Recombinant mouse ALT2/GPT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

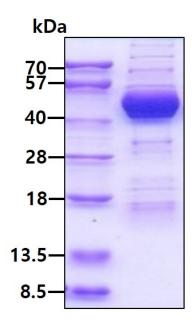
<MGSSHHHHHH SSGLVPRGSH M>QRAAVLVRR GSCPRASGPW GRSHSSAAAE ASAALKVRPE RSPRDRILTL ESMNPQVKAV EYAVRGPIVL KAGEIEMELQ RGIKKPFTEV IRANIGDAHA MGQQPITFLR QVMALCTYPN LLNSPSFPED AKKRARRILQ ACGGNSLGSY SASQGVNCIR EDVAAFITRR DGVPADPDNI YLTTGASDGI STILKLLVSG GGKSRTGVMI PIPQYPLYSA VISELDAVQV NYYLDEENCW ALNVDELRRA LRQAKDHCDP KVLCIINPGN PTGQVQSRKC IEDVIHFAWE EKLFLLADEV YQDNVYSPDC RFHSFKKVLY QMGHEYSSNV ELASFHSTSK GYMGECGYRG GYMEVINLHP EIKGQLVKLL SVRLCPPVSG QAAMDIVVNP PEPGEESFEQ FSREKEFVLG NLAKKAKLTE DLFNQVPGIQ CNPLQGAMYA FPRILIPAKA VEAAQSHKMA PDMFYCMKLL EETGICVVPG SGFGQREGTY HFRMTILPPV DKLKTVLHKV KDFHLKFLEQ YS

#### **General References**

Sohocki M.M. et al. (1997) Genomics 40(2):247-52. Matthews C.C. et al. (2003) Brain Res. 978(1-2): 59-64.

# **DATA**

#### **SDS-PAGE**



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

