

# Recombinant mouse ALT2/GPT2 protein

Catalog Number: ATGP3881

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-522aa

### UniProt No.

Q8BGT5

### 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

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### 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 minute at 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.

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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 RSPDRILTL  
ESMNPQVKAV EYAVRGPIVL KAGEIEMELQ RGIKKPFTEV IRANIGDAHA MGQQPITFLR QVMALCTYPN LLNSPSFPED  
AKKRARRILQ ACGGNSLGSY SASQGVNCIR EDVAAFITRR DGVPADPDNI YLTTGASDGI STILKLLVSG GGKSRTGVM I  
PIQYPLYSA VISELDAVQV NYLDEENCW ALNVDELRRR LRQAKDHCDP KVLCIINPGN PTGQVQSRKC IEDVIHFAWE  
EKLFLLADEV YQDNVYSPDC RFHSFKKVLVY QMGHEYSSNV ELASFHSTSK GYMGECEGYRG 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

3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

