

Recombinant human ALT2/GPT2 protein

Catalog Number: ATGP4079

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-523aa

UniProt No.

Q8TD30

NCBI Accession No.

NP_597700

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, 2mM DTT, 0.2M NaCl

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 100unit/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

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.

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

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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.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MQRAAAL VRRGCGPRTP SSWGRSQSSA AAEASAVLKV RPERSRRERI
LTLESMNPQV KAVEYAVRGP IVLKAGEIEL ELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF
PEDAKKRARR ILQACGGNSL GSYSASQGVN CIREDVAAYI TRRDGGVPAD PDNIYLTGA SDGISTILKI LVSGGGKSRT
GVMIPQYP LYSAVISELD AIQVNYLDE ENCWALNVNE LRAVQEAKD HCDPKVLCII NPGNPTGQVQ SRKCIEDVIH
FAWEEKLFL ADEVYQDNVY SPDCRFHSFK KVLVEMGPEY SSNVELASFH STSKGYMGEC GYRGGYMEVI NLHPEIKGQL
VKLLSVRLCP PVSGQAAMD VVNPPVAGEE SFEQFSREKE SVLGNLAKKA KLTEDLFNQV PGIHCNPLQG AMYAFPRIFI
PAKAVEAAQA HQMAPDMFYC MKLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPVEKLKTV LQVKDFHIN FLEKYA

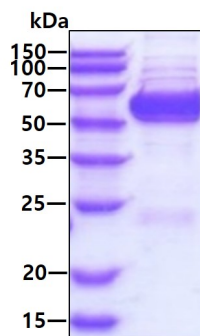
General References

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