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Recombinant mouse ALT1/GPT1 protein

Catalog Number: ATGP3530

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-496aa

UniProt No.

Q8QZR5

NCBI Accession No.

NP 877957.1

Alternative Names

Alanine aminotransferase 1, ALT, ALT1, Gpt-1, Gpt1

PRODUCT SPECIFICATION

Molecular Weight

57.5 kDa (519aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 1mM DTT, 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

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

Biological Activity

Specific activity is > 100unit/mg, and is defined as the amount of enzyme that convert 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



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Description

Gpt, also known as alanine aminotransferases 1, catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. This protein plays a key role in the intermediary metabolism of glucose and amino acids. It is widely used as an index of liver integrity or hepatocellular damage in clinical settings. Recombinant mouse Gpt protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

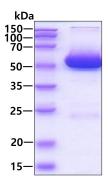
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General References

Sohocki MM. et al. (1997) Genomics. 40(2):247-52. Matthews CC. 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.

