Active Recombinant Mouse Gpt protein, His-tagged

Cat. No. Gpt-131M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gpt(1-496 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	1-496 a.a.
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.
Form	Liquid. In Phosphate Buffered Saline (pH7.4) containing 1mM DTT, 10% glycerol
Bio-activity	Specific activity is > 40units/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 37°C
Molecular Mass	57.5 kDa (519 aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMASQRND RIQASRNGLK GKVLTLDTMN PCVRRVEYAV RGPIVQRALE LEQELRQGVK KPFTEVIRAN

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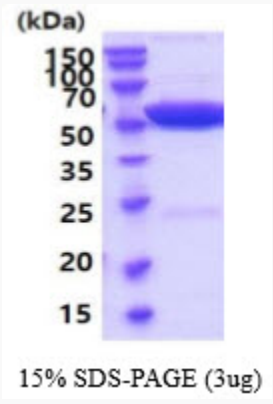
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Purity	> 90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	Gpt glutamic pyruvic transaminase, soluble [Mus musculus]
Official Symbol	Gpt
Synonyms	GPT; glutamic pyruvic transaminase, soluble; alanine aminotransferase 1; ALT1; GPT 1; glutamic--alanine transaminase 1; glutamic--pyruvic transaminase 1; glutamate pyruvate transaminase 1; glutamic pyruvic transaminase 1, soluble; ALT; Gpt1; Gpt-1; 1300007J06Rik; 2310022B03Rik;

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Gene ID	76282
mRNA Refseq	NM_182805
Protein Refseq	NP_877957
UniProt ID	Q8QZR5
Chromosome Location	15 D3; 15 36.28 cM
Pathway	Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	L-alanine:2-oxoglutarate aminotransferase activity; catalytic activity; pyridoxal phosphate binding; transaminase activity; transferase activity; transferase activity, transferring nitrogenous groups;



15% SDS-PAGE (3ug)

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