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**Product Data Sheet**


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Product Name: GPT Mouse  
 Cat. No.: GP21721  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alanine aminotransferase 1; ALT1; Glutamate pyruvate transaminase 1; GPT 1; Glutamic--alanine transaminase 1; Glutamic--pyruvic transaminase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMASQRND RIQASRNLK GKVLTLDTMN PCVRRVEYAV RGPVQRALE LEQELRQGVK KPFTEVIRAN IGDAQAMGQR PITFFRQVLA LCVYPNLLSS PDFPEDAKRR AERILQACGG HSLGAYSISS GIQPIREDVA QYIERRDGGI PADPNNIFLSTGASDAIVTM LKLLVAGEGR ARTGVLIPIP QYPLISAALA ELDAVQVDYY LDEERAWALD IAELRRALCQ ARDRCCPRVL CVINPGNPTG QVQTRECIEA VIRFAFEGL FLMADEVYQD NVYAEGSQFH SFKKVLTEMG PPYATQQELA SFHSVSKGYM GECGFRGGYV EVVNMDAEVQKQMAKLMSVR LCPPVPGQAL MGMVVSPTP SEPSFKQFQA ERQEVLAELA AKAKLTEQVF NEAPGIRCNP VQGAMYSFPQ IQLPLKAVQR AQDLGLAPDM FFCLCLEET GICVVPKSGF GQQEGTYHFR MTILPPMEKL RVLLEKLRHF HAKFTHEYS.		
Formulation	GPT protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH7.4), 1mM DTT and 10% glycerol.		

**Introduction**

GPT catalyzes the reversible transamination between alanine and 2-oxoglutarate to create pyruvate and glutamate. GPT has a crucial part in the intermediary metabolism of glucose and amino acids. GPT is broadly used as an indicator of liver reliability or hepatocellular destruction in clinical tests.

**Biological Activity**

Specific activity is > 40units/mg, and is defined as the amount of enzyme that convert

**Caution: Product has not been fully validated for medical applications. For research use only.**

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1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GPT Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 519 amino acids (1-496 a.a) and having a molecular mass of 57.5kDa. GPT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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