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**Product Data Sheet**


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Product Name: GPT2 Mouse

Cat. No.: GP21725

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms ALT2; AAT2; Alanine aminotransferase 2; Glutamate pyruvate transaminase 2; Glutamic--alanine transaminase 2; Glutamic--pyruvic transaminase 2.

Amino Acid Sequence  
 MGSSHHHHHH SGLVPRGSH MQRAAVLVRR GSCPRASGPW GRSHSSAAAE  
 ASAALKVRPE RSPRDRILTL ESMNPQVKAV EYAVRGPIVL KAGEIEMELQ  
 RGIKKPFTEV IRANIGDAHA MGQQPITFLR QVMALCTYPN LLNSPSFPED  
 AKKRARRILQ ACGGNSLGSY SASQGVNCIR EDVAAFITRR DGVPADPDNI  
 YLTTGASDGI STILKLLVSG GGKSRTGVMI PIPQYPLYS VISELDAVQV  
 NYLDEENCW ALNVDELRRR LRQAKDHCDP KVLCIINPGN PTGQVQSRKC  
 IEDVIHFAWE EKLFLLADEV YQDNVYSPDC RFHSFKKVLV QMGHEYSSNV  
 ELASFHSTSK GYMGECEGYRG GYMEVINLHP EIKGQLVKLL SVRLCPPVSG  
 QAAMDIVVNP PEPGEESFEQ FSREKEFVLG NLAKKAKLTE DLFNQVPGIQ  
 CNPLQGAMYA FPRILIPAKA VEAAQSHKMA PDMFYCMKLL EETGICVVP  
 SGFGQREGTY HFRMTILPPV DKLKTVLHKV KDFHLKFLEQ.

Formulation The GPT2 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 7.5), 20% glycerol, and 2mM DTT.

**Introduction**

Glutamic-Pyruvate Transaminase 2 (GPT2) catalyzes the reversible transamination among alanine and 2-oxoglutarate to create pyruvate and glutamate. GPT2 expressed mainly in muscle, fat and kidney and participates in the intermediary metabolism of glucose and amino acids.

**Biological Activity**

Greater than 50units/mg, and is defined as the amount of enzyme that cleaves 1umole

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

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of L-Alanine to L-Glutamate per minute at pH7.5 at 376μ.

### 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

GPT2 Mouse Recombinant produced in E. coli is a single polypeptide chain containing 522 amino acids (1-522) and having a molecular mass of 60.1 kDa. Mouse GPT2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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