

## 32-6776: GPT Mouse

**Application :** Functional Assay

**Alternative Name :** Alanine aminotransferase 1, ALT1, Glutamate pyruvate transaminase 1, GPT 1, Glutamic--alanine transaminase 1, Glutamic--pyruvic transaminase 1.

### Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** GPT protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH7.4), 1mM DTT and 10% glycerol.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMASQRND RIQASRNLK GKVLTLDTMN PCVRRVEYAV  
RGPVQRALE LEQELRQGVK KPFTEVIRAN IGDAQAMGQR PITFFRQVLA LCVYPNLLSS PDFPEDAKRR  
AERILQACGG HSLGAYSISS GIPIREDVA QYIERRDGGI PADPNNIFLSÂ TGASDAIVTM LKLLVAGEGR  
ARTGVLPIIP QYPLYSAAALA ELDAVQVDYY LDEERAWALD IAE LRALCQ ARDRCCPRVL CVINPGNPTG  
QVQTRECIEA VIRFAFEGL FLMADEVYQD NVYAEGSQFH SFKKVLTEMG PPYATQQELA SFHSVSKGYM  
GECGFRGGYV EVVNMDAEVQÂ QMAKLM SVR LCPPVPGQAL MGMVSPPTP SEPSFKQFQA  
ERQEVLAELA AKAKLTEQVF NEAPGIRCNP VQGAMYSFPQ IQLPLKAVQR AQDLGLAPDM FFCLCLEET  
GICVVP GSGF GQQEGTYHFR MTILPPMEKL RVLLEKLRHF HAKFTHEYS.

### Application Note

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 37C.ÅÅ