

## 32-6780: GPT2 Mouse, Active

**Application :** Functional Assay

**Alternative Name :** ALT2, AAT2, Alanine aminotransferase 2, Glutamate pyruvate transaminase 2, Glutamic--alanine transaminase 2, Glutamic--pyruvic transaminase 2.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

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.

GPT2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 542 amino acids (1-522 aa) and having a molecular mass of 60.1kDa. GPT2 is fused to a 20 amino acid His tag at N-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 85.0% as determined by SDS-PAGE.

**Content :** The GPT2 solution (1 mg/ml) contains 2mM DTT, 20% Glycerol and 20mM Tris-HCl (pH7.5).

**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 MQRRAVLVRR GSCPRASGPW GRSHSSAAAE  
ASAALKVRPERSPRDRITL ESMNPQVKAV EYAVRGPIVL KAGEIEMELQ RGIKKPFTEV  
IRANIGDAHAMGQPITFLR QVMALCTYPN LLNSPSFPED AKKRARRILQ ACGNSLGSY  
SASQGVNCIREDVAAFITRR DGVPADPDNI YLTTGASDGI STILKLLVSG GGKSR TGVM I  
PIQYPLYSAVISELDAVQV NYLDEENCW ALNDELRRR LRQAKDHCDP KVL CIINPGN  
PTGQVQSRKCIEDVIHFAWE EKLFLLADEV YQDNVYSPDC RFHSFKKVLV QMGHEYSSNV  
ELASFHSTSKGYMGECGYRG GYMEVINLHP EIKGQLVKLL SVRLCPPVSG QAAMDIVVNP  
PEPGEESFEQFSREKEFVLG NLAKKAKLTE DLFNQVPGIQ CNPLQGAMYA FPRILIPAKA  
VEAAQSHKMAPDMFYCMKLL EETGICVVPV SGFGQREGTY HFRMTILPPV DKLKTVLHKV KDFHLKFLEQ  
YS

### Application Note

Specific activity is > 50 units/mg. Measured by the amount of enzyme that cleaves 1umole of L-Alanineto L-Glutamate per minute at pH7.5 at 37°C.