

## 32-6778: GPT2 Human, 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: E.coli.

Sterile Filtered colorless solution.

Alanine aminotransferase 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. Multiple transcript variants encoding various isoforms have been found for GPT2.

GPT2 Human Recombinant produced in E. coli is a single polypeptide chain containing 546 amino acids (1-523) and having a molecular mass of 60.3 kDa. GPT2 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% as determined by SDS-PAGE.

**Content :** The GPT2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH7.5), 30% glycerol, 2mM DTT, 0.2M NaCl.

**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 MGSMQRAAAL VRRGCGPRTP SSWGRSQSSA AAEASAVLKV  
RPERSRRERI LTLESMNPQV KAVEYAVRGP IVLKAGEIEL ELQRGIKKPF TEVIRANIGD  
AQAMGQQPIT FLRQVMALCT YPNLLDSPSF PEDAkkRARR ILQACGGNSL GSYASQGVN  
CIREDVAAYI TRRDGGVPAD PDNIYLTGA SDGISTILKI LVSGGGKSRT GVMIPQYP  
LYSAVISELD AIQVNYLDE ENCWALNVNE LRAVQEAKD HCDPKVLCII NPGNPTGQVQ  
SRKCIEDVIH FAWEEKLFL ADEVYQDNVY SPDCRFHSFK KVLVEMGPEY SSNVELASFH  
STSKGYMGEC GYRGGYMEVI NLHPEIKGQL VKLLSVRLCP PVSGQAAMDI VVNPPVAGEE  
SFEQFSREKE SVLGNLAKKA KLTEDLFNQV PGIHCNPLQG AMYAFPRIFI PAKAVEAAQA  
HQMADPMFYC MKLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPVEKLKTV LQKVKDFHIN  
FLEKYA.

### Application Note

Specific activity is > 100units/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.