

**Gpt, 1-496 aa, Mouse, His-tag, E.coli**

**Cat.NO.: TP02320**

3th Edition

**Synonyms:** Alanine aminotransferase 1, ALT, ALT1, Gpt-1, Gpt1

**Description:** Gpt, also known as alanine aminotransferases 1, catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. This protein plays a key role in the intermediary metabolism of glucose and amino acids. It is widely used as an index of liver integrity or hepatocellular damage in clinical settings. Recombinant mouse Gpt protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**Form:** Liquid. In Phosphate Buffered Saline (pH7.4) containing 1mM DTT, 10% glycerol

**Molecular Weight:** 57.5 kDa (519 aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMASQRNDRIQASRNLKKGKVLTLDTMNPVRRVEYAVRGPVQRALALEQE  
LRQGKVPFTEVIRANIGDAQAMGQRPITFFRQVLALCVYPNLLSSPDFPEDAKRRAERILQACGGHSLGAYSISSGI  
QPIREDVAQYIERRDGGIPADPNIFLSTGASDAIVTMLKLLVAGEGRARTGVLIPIQYPLYSAAALDAVQVDYYL  
DEERAWALDIAELRRALCQARDRCCPRVLCVINPGNPTGQVQTRECIEAVIRFAFEEGLFLMADEVYQDNVYAEGS  
QFHSFKKVLTEMGPPYATQQELASFHSVSKGYMGECGFRGGYVEVVMMDAEVQKQMAKLMSVRLCPPVPGQAL  
MGMVVSPTPSEPSFKQFQAERQEVLAEAAKAKLTEQVFNEAPGIRCNPVQGAMYSFPQIQLPLKAVQRAQDLG  
LAPDMFFCLCLEETGICVVPGSGFGQEGTYHFRMTILPPMEKLRVLEKLRHFHAKFTHEYS

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Absorbance at 280nm )

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.