

**GPT, 1-496aa, Human, His tag, E.coli**

**Cat.NO.: TP02321**

3th Edition

**Synonyms:**AAT1, ALT1, GPT1

**Description:**GPT, also known as alanine aminotransferases (ALT1), 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 human GPT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT

**Molecular Weight:**56.8 kDa (516aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMASSTGDRSQAVRHGLRAKVLTLDGMNPRVRRVEYAVRGPVQRALALEQELRQ  
GVKKPFTEVIRANIGDAQAMGQRPIFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQACGGHSLGAYSVSSGIQLI  
REDVARYIERRDGGIPADPNNVFLSTGASDAIVTVLKLLVAGEGHTRTGVLPIPIQYPLYSATLAELGAVQVDYYLDE  
ERAWALDVAELHRALGQARDHCRPRALCVINPGNPTGQVQTRECI EAVIRFAFEERLFLLADEVYQDNVYAAGSQF  
HSFKKVLMEMGPPYAGQQELASFHSTSKGYMGECGFRGGYVEVNMDDAAVQQQMLKLSVRLCPPVPGQALLD  
LVVSPAPTDP SFAQFQAEKQAVLAELA KAKL TEQVFNEAPGISCNPVQGAMYSFPRVQLPPRAVERA QELGLAP  
DMFFCLRLLEETGICVVP GSGFGQREGTYHFRMTILP PLEKLRLLLEKLSRFHAKFTLEYS

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**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.