

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

**Cat.NO.: TP02323**

3th Edition

**Synonyms:**Gpt1

**Description:**Gpt also known as Alanine aminotransferase 1, is a pyridoxal enzyme which catalyses the reversible interconversion of L-alanine and 2-oxoglutarate to pyruvate and L-glutamate. The Gpt is widely distributed in various tissues from animals and even in some kind of plants. It is suggested that c-ALT is associated to the utilization of pyruvate in glycolysis and m-ALT is involved in the conversion of alanine to pyruvate for gluconeogenesis. Recombinant rat Gpt, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques

**Form:**Liquid. In Phosphate Buffered Saline pH 7.4 containing 10% glycerol

**Molecular Weight:**57.5kDa (519aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMASRVNDQSQASRNLKKGKVLTLDTMNPVRRVEYAVRGPIVQRALELEQ  
ELRQGVKKPFTEVIRANIGDAQAMGQRPITFFRQVLALCVYPNLLSSPDFPEDAKRRAERILQACGGHSLGAYSISS  
GIQPIREDVAQYIERRDGGIPADPNIFLSTGASDAIVTMLKLLVSGEGRARTGVLIPQYPLYSAALAELDAVQVDY  
YLDEERAWALDIAELRRALCQARDRCRVLGVINPGNPTGQVQTRECIQAVIRFAFKEGLFLMADEVYQDNVYAE  
GSQFHSFKKVLMMEMGPPYSTQQELASFHSVSKGYMGECGFRGGYVEVNMDAEVQKQMGKLMVRLCPPVPG  
QALMDMVVSPPTPSEPSFKQFQAERQEVLAELAALKLQEQVFNEAPGIRCNPVQGAMYSFPQVQLPLKAVQRAQ  
ELGLAPDMFFCLCLEETGICVVPVSGFGQEGTYHFRMTILPPMEKLRLLLEKLSHFHAKFTHEYS

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.