

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:

MGSSHHHHHHSSGLVPRGSHMGSMASQRNDRIQASRNLKKGKVLTLDTMNPVRRVEYAVRGPIVQRALELEQE
LRQGKPKPFTEVIRANIGDAQAMGQRPITFFRQVLALCVYPNLLSSPDFPEDAKRRAERILQACGGHSLGAYSISSGI
QPIREDVAQYIERRDGGIPADPNNIFLSTGASDAIVTMLKLLVAGEGRARTGVLIPIQYPLYSAALAELDAVQVDYYL
DEERAWALDIAELRRALCQARDRCCPRVLCVINPGNPTGQVQTRECIEAVIRFAFEEGLFLMADEVYQDNVYAEGS
QFHSFKKVLTEMGPPYATQQELASFHSVSKGYMGECGFRGGYVEVVNMDAEVQKQMAKLMSVRLCPPVPGQAL
MGMVVSPPTPSEPSFKQFQAERQEVLAELAAKAKLTEQVFNEAPGIRCNPVQGAMYSFPQIQLPLKAVQRAQDLG
LAPDMFFCLCLLEETGICVVPGSFGGQEGTYHFRMTILPPMEKLRVLLEKLRHFHAKFTHEYS

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.