GPT/ALT1, human recombinant

CATALOG #: 7805-50 50 µg

ALTERNATE NAMES: Alanine aminotransferase 1, AAT1, ALT1, GPT1

SOURCE: E. Coli

PURITY: > 90% by SDS - PAGE

MOL. WEIGHT: 56.8 kDa (516 aa, 1-496 aa + His Tag)

FORM: Liquid

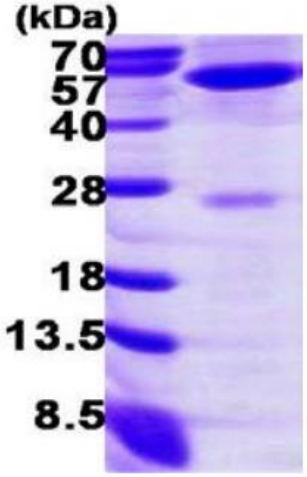
FORMULATION: 0.5 mg/ml solution 20 mM Tris-HCl buffer, pH 8.0, 20% glycerol and 1 mM DTT.

STORAGE CONDITIONS:
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.

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.

AMINO ACID SEQUENCE:
MGSSHHHHHH SSGLVPRGSH MASSTGDRSQ AVRHGLRAKV LTLDGMNPRV RRVEYAVRGP IVQRALELEQ ELRQGVKKPF TEVIRANIGD AQAMGQRPIT FLRQVLALCV NPDLLSSPNF PDDAKKRAER ILQACGGHSL GAYSVSSGIQ LIREDVARYI ERRDGGIPAD PNNVFLSTGA SDAIVTVLKL LVAGEGHTRT GVLIPIPQYP LYSATLAELG AVQVDYYLDE ERAWALDVAE LHRALGQARD HCRPRALCVI NPGNPTGQVQ TRECIEAVIR FAFEERLFLL ADEVYQDNVY AAGSQFHSFK KVLMEMGPPY AGQQELASFH STSKGYMGEC GFRGGYVEVV NMDAAVQQQM LKLMSVRLCP PVPGQALLDL VVSPPAPTDP SFAQFQAEKQ AVLAELAAKA KLTEQVFNEA PGISCNPVQG AMYSFPRVQL PPRAVERAQE LGLAPDMFFC LRLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPLEKLRLL LEKLSRFHAK FTLEYS

BIOLOGICAL ACTIVITY:
Specific activity is > 20 unit/mg; One unit will convert 1.0 µmole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37ºC.



15% SDS-PAGE (3ug)
Human Recombinant GPT/ALT1

RELATED PRODUCTS:
- GPT2/ALT2, human recombinant **(Cat. No. 7806-100)**
- Alanine Aminotransferase (ALT or SGPT) Activity Assay Kit **(Cat. No. K752-100)**
- Alanine Colorimetric/Fluorometric Assay Kit **(Cat. No. K652-100)**

FOR RESEARCH USE ONLY! Not to be used in humans.