

GPT

Recombinant Human GPT / ALT, His Tag Active

Catalog No.	CSI12679A CSI12679B CSI12679C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	Alanine aminotransferase 1, ALT1, Glutamate pyruvate transaminase 1, GPT 1		
Description:	Alanine transaminase or ALT is found in serum and in various bodily tissues, but is most commonly associated with the liver. It catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate and plays a key role in the intermediary metabolism of glucose and amino acids. Serum activity levels of this enzyme are routinely used as a biomarker of liver injury caused by drug toxicity, infection, alcohol, and fatty liver disease.		
UniProt ID:	P24298		
Concentration:	0.5 mg/ml		
Source:	<i>E. Coli</i>		
Molecular Weight:	56.8 kDa (516 aa, 1-496) homodimer		
Formulation:	Sterile filtered 20 mM Tris-HCl, pH 8.0, containing 2 mM DTT and 20% glycerol		
Purity:	> 90% as determined by SDS-PAGE and RP-HPLC analysis.		
Specific Activity:	> 100 U/mg, defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.		
Amino Acid Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MASSTGDRSQ AVRHGLRAKV LTLDGMNPRV RRVEYAVRGP IVQRALELEQ ELRQGVKKPF TEVIRANIGD AQAMGQRPI FLRQVLALCV NPDLLSSPNF PDDAKKRAER ILQACGGHSL GAYSVSSGIQ LIREDVARYI ERRDGGIPAD PNNVFLSTGA SDAIVTVLKL LVAGEGHTRT GVLPIPIQYP LYSATLAELG AVQVDYYLDE ERAWALDVAE LHRALGQARD HCRPRALCVI NPGNPTGQVQ TRECIEAVIR FAFEERLFL ADEVYQDNVY AAGSQFHSEFK KVLMEMGPPY AGQQLASFH STSKGYMGEC GFRGGYVEVV NMDAAVQQQM LKLMSVRLCP PVPGQALLDL VVSPAPTDP SFAQFQAEKQ AVLAELAACA KLTEQVFNEA PGISCNPVQG AMYSFPRVQL PPRAVERAQE LGLAPDMFFC LRLLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPLEKLRL LEKLSRFHAK FTLEYS		
Storage & Stability:	Stable at 2-8°C for shipping purpose. Store unopened at -20°C to -80°C for up to 1 year. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

