

GPT

Recombinant Human GPT / ALT, Active

Catalog No.	CSI12675	Quantity:	50 U
Alternate Names:	Alanine aminotransferase, 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.		
Gene ID:	2875		
UniProt ID:	P24298		
Concentration:	~1500 U/ml, lot specific		
Source:	<i>E. Coli</i>		
Molecular Weight:	54.48 kDa (495 aa) homodimer		
Formulation:	Sterile filtered 40 mM sodium acetate, pH 5.5 1 mM DTT containing 1 mM EDTA, 5 mM 2-oxoglutarate, 0.1 mM pyridoxal-5'-phosphate.		
Purity:	> 95% as determined by SDS-PAGE and RP-HPLC analysis.		
Specific Activity:	~1000 U/mg, lot specific		
Amino Acid Sequence:	Identical to native form of human liver ALT.		
Storage & Stability:	Stable at 2-8°C for shipping purpose. Store unopened at -20°C to -80°C for up to 1 year. Avoid repeated freeze-thaw cycles.		

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