

GPT

Native Porcine Glutamate Pyruvate Transaminase, GPT/ALT

Catalog No.	CSI14647A CSI14647B	Quantity:	10 KU 25 KU
Alternate Names:	Alanine aminotransferase 1, ALT1, Glutamate pyruvate transaminase 1, GPT 1, Glutamic--pyruvic transaminase 1, Glutamic--alanine transaminase 1, EC:2.6.1.2		
Description:	Glutamate Pyruvate Transaminase derived from Porcine Heart. Glutamate Pyruvate Transaminase (GPT) is an enzyme that catalyzes the reversible transfer of an amino group from alanine to alpha-ketoglutarate. GPT is found in serum and in various bodily tissues but is most commonly associated with the liver.		
UniProt ID:	P13191		
Source:	Porcine Heart		
Molecular Weight:	100 kDa		
Solubility:	Clear, colorless to yellow-green solution (1 mg/ml saline)		
Formulation:	Lyophilized from Tris-chloride buffer, pH 7.0 with sodium chloride, EDTA, DTT, alpha-ketoglutarate and pyridoxal-5-phosphate		
Specific Activity:	110 U/mg protein (A_{280}), lot specific 180 U/mg protein (Coomassie)		
Protein:	1.0 mg protein /mg (A_{280}), lot specific 0.63 mg protein/mg (Coomassie)		
Activity:	110 U/mg (Dimension™ Clinical Chemistry System), lot specific		
Unit Definition:	One unit will catalyze the transamination of one micromole per minute of L-alanine to alpha-ketoglutarate, forming L-glutamate and pyruvate at 37°C and pH 7.4.		
Contaminants:	SGOT/AST: ≤ 0.5% CPK: ≤ 0.1% LDH: ≤ 0.1% GLDH: ≤ 0.01% Protease: ≤ 0.02 U/mg (<0.001 OD/8 minutes) Ammonia: ≤ 0.05 μmol/mg		
Reconstitution:	Centrifuge vial before opening to ensure full recovery. Reconstitute with distilled water or dilute buffer to a concentration of 0.1-1.0 mg/ml.		
Storage & Stability:	Store at -20°C for at least 1 year. Upon reconstitution, prepare aliquots and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		
Country of Origin:	USA		

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