
Product Data Sheet

Product Name: GPT Human, His Active

Cat. No.: GP21720

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutamic-pyruvate transaminase (alanineaminotransferase); GPT1; ALT1; AAT1; Glutamic-alanine transaminase 1; EC2.6.1.2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MASSTGDRSQ AVRHGLRAKV LTLDGMPNPRV RRVEYAVRGP IVQRALELEQ ELRQGVKKPF TEVIRANIGD AQAMGQRPIT FLRQVLALCV NPDLLSSPNF PDDAKKRAER ILQACGGHSL GAYSVSSGIQ LIREDVARYI ERRDGGIPAD PNNVFLSTGA SDAIVTVLKL LVAGEGHTRT GVLIPQYP LYSATLAELG AVQVDYYLDE ERAWALDVAE LHRALGQARD HCRPRALCVI NPGNPTGQVQ TRECIEAVIR FAFEERLFL ADEVYQDNVY AAGSQFHSFK KVLMEMGPPY AGQQELASFH STSKGYMGEC GFRGGYVEVV NMDAAVQQQM LKLMSVRLCP PVPGOALLDL VVSPAPTDP SFAQFQAEKQ AVLAELAACA KLTEQVFNEA PGISCNPVQG AMYSFPRVQL PPRaveraQE LGLAPDMFFC LRLLEETGIC VVPGSGFGQR EGTYHFRMTI LPPLEKLRL LEKLSRFHAK FTLEYS		
Formulation	The GPT solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT and 20% glycerol.		

Introduction

GPT catalyzes the reversible transamination between alanine and 2-oxoglutarate to create pyruvate and glutamate. GPT has a crucial part in the intermediary metabolism of glucose and amino acids. GPT is broadly used as an indicator of liver reliability or hepatocellular destruction in clinical tests.

Biological Activity

Specific activity is > 100units/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GPT Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 516 amino acids (1-496) and having a molecular mass of 56.8 kDa. GPT is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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