
Product Data Sheet

Product Name: GPT Rat
 Cat. No.: GP21722
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alanine aminotransferase 1 (EC:2.6.1.2); ALT1; Glutamate pyruvate transaminase 1; GPT 1; Glutamic--alaninetransaminase 1; Glutamic--pyruvic transaminase 1; Gpt; Aat1; Gpt1.		
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSH MGSMASRVND QSQASRNLKKGKVLTLDTMN PCVRRVEYAV RGPVQRALE LEQELRQGVK KPFTEVIRAN IGDAQAMGQR PITFFRQVLALCVYPNLLSS PDFPEDAKRR AERILQACGG HSLGAYSISS GIQPIREDVA QYIERRDGGI PADPNNIFLS TGASDAIVTMLKLLVSGEGR ARTGVLIPIP QYPLYSAAAL ELDVAVQVDYY LDEERAWALD IAELRRALCQ ARDRCCPRVLCVINPGNPTG QVQTRECIEA VIRFAFKEGL FLMADEVYQD NVYAEGSQFH SFKKVLMEMG PPYSTQQELASFHSVSKGYM GECGFRGGYV EVVNMDAEVQ KQMGKLSVR LCPPVPGQAL MDMVVSPTP SEPSFKQFQAERQEVLAELA AKAKLTEQVF NEAPGIRCNP VQGAMYSFPQ VQLPLKAVQR AQELGLAPDM FFCLCLEETGICVVPVGS GF GQQEGTYHFR MTILPPMEKL RLLLEKLSHF HAKFTHEYS.		
Formulation	GPT protein solution (1mg/ml) containing PhosphateBuffered Saline pH 7.4 and 10% 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 > 60units/mg, and is defined as the amount of enzyme that cleaves

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

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1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.

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 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 519 amino acids (1-496 a.a) and having a molecular mass of 57.5kDa.

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