

Product datasheet for TP303756

Alanine Transaminase (GPT) (NM_005309) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glutamic-pyruvate transaminase (alanine aminotransferase) (GPT), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203756 protein sequence Red =Cloning site Green =Tags(s)

MASSTGDRSQAVRHGLRAKVLTLDGMNPRVRRVEYAVRGPVQRALALELQELRQGVKKPFTEVIRANIGD
AQAMGQRPITFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQACGGHSLGAYSVSSGIQLIREDVARYI
ERRDGGIPADPNVFLSTGASDAIVTLKLLVAGEGHTRTGVLIPQYPLYSATLAELGAVQVDYYLDE
ERAWALDVAELHRALGQARDHCRPRALCVINPGNPTGQVQTRECIEAVIRFAFEERLFLLADEVYQDNVY
AAGSQFHSEKVLMMEMGPPYAGQQELASFHSTSKGYMGECGFRGGYVEVNMDAAVQQQMLKLSVR
LCP
PVPGQALLDLVSPAPTDPFSAQFQAEKQAVLAELAAKAKLTEQVFNEAPGISCNPVQGAMYSFPRVQL
PPRAVERAQELGLAPDMFFCLRLLLEETGICVVPGSGFGQREGTYHFRMTILPPEKLRLLLEKLSRFHAK
FTLEYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

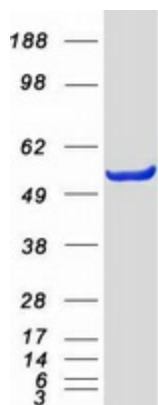
Tag:	C-Myc/DDK
Predicted MW:	54.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005300
Locus ID:	2875
UniProt ID:	P24298
RefSeq Size:	1896
Cytogenetics:	8q24.3
RefSeq ORF:	1488
Synonyms:	AAT1; ALT1; GPT1
Summary:	This gene encodes cytosolic alanine aminotransaminase 1 (ALT1); also known as glutamate-pyruvate transaminase 1. This enzyme catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate and, therefore, 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 steatosis. A related gene on chromosome 16 encodes a putative mitochondrial alanine aminotransaminase.[provided by RefSeq, Nov 2009]
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GPT protein (Cat# TP303756). The protein was produced from HEK293T cells transfected with GPT cDNA clone (Cat# [RC203756]) using MegaTran 2.0 (Cat# [TT210002]).