

Glutamate Pyruvate Transaminase Active Protein | GPT active protein

Glutamate Pyruvate Transaminase protein

CATALOG #
AAA224521

HOST
Human

PRODUCT SYNONYMS

Glutamate Pyruvate Transaminase; Glutamate Pyruvate Transaminase protein; Alanine aminotransferase protein; GPT active protein

PRODUCT SPECIFICATIONS

Host	Human
Form/Format	Yellow-green powder. Lyophilized from 25mM Tris Chloride, pH 7.0 with 1mM EDTA, 1mM DTT, 0.05mM alpha-ketoglutarate, and 0.05mM pyridoxal-5-phosphate.
Concentration	100 units, lyophilized (varies by lot)
Sequence Length	496
Source	Human Liver
Protein Type	Native
Biological Significance	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.
Contaminants	ALP <0.1% CK <0.1% gGT <0.1% GOT/AST 0.6% LDH <0.1%
Protein	0.91 mg protein/mg solid (Coomasie)
Activity	33 U/mg solid
Specific Activity	36 U/mg protein
Biohazard	non-reactive for HIV-1/HCV/HBV by NAT, HBsAg, HCV Ab, HIV 1&2 Ab, and RPR by currently approved FDA methods
Preparation and Storage	Ships ambient or refrigerated. Upon receipt store at -20°C

ADDITIONAL INFORMATION

Related Product Information for GPT active protein	Purified native Human Glutamate Pyruvate Transaminase protein
Product Categories/Family for GPT active protein	Proteases ; Inhibitors ; & Enzymes ; Native Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	1763096
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NCBI GeneID	2875
Molecular Weight	57 kDa
NCBI Official Full Name	glutamate pyruvate transaminase
NCBI Official Synonym Full Names	glutamic-pyruvate transaminase (alanine aminotransferase)
NCBI Official Symbol	GPT
NCBI Official Synonym Symbols	AAT1; ALT1; GPT1
NCBI Protein Information	alanine aminotransferase 1
UniProt Protein Name	Alanine aminotransferase 1
UniProt Gene Name	GPT
UniProt Synonym Gene Names	AAT1; GPT1; ALT1; GPT 1
UniProt Entry Name	ALAT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/glutamate-pyruvate-transaminase/224521>