



CREATIVE BIOMART

Natural Porcine-Derived GPT • ALT Active Enzyme

— The Gold Standard for Liver Metabolism and Toxicology Research

[Recombinant Protein](#)

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Glutamate Pyruvate Transaminase / Alanine Aminotransferase (ALT/GPT)

Product Feature

[Active Native Porcine Glutamate Pyruvate Transaminase \(GPT\), Alanine Transaminase \(ALT\).](#)

- 100 kDa natural conformation, activity > 80 U/mg
- Sourced from porcine heart, zero label interference, reflecting true in vivo dynamics
- Lyophilized powder: stable long-term storage at 20 °C, ready to reconstitute upon use
- From \$59: Available in 1 KU / 10 KU formats, in-stock for same-day dispatch
- Preferred biomarker for hepatotoxicity, drug metabolism, and glucose-amino acid interaction studies



Applications

Liver Toxicology and Drug Safety Evaluation

- Serves to validate the hepatotoxicity of new drugs, natural products, or nanomaterials by acting as a positive control for ALT leakage detection within in vitro liver cells/microsome models.
- Establishes a high-throughput ALT activity detection platform that replaces traditional animal tests.

Metabolomics and Glucose-Amino Acid Interactions

- Enables *In vitro* reconstruction of the alanine- α -ketoglutarate reversible reaction system to study gluconeogenesis, TCA replenishment, and nitrogen metabolism flow.
- Utilized in isotope-labeled flux analysis (^{13}C , ^{15}N tracing) for its high specific activity (>80 U/mg).

Diagnostic Kit Development and Quality Control

- Acts as a standard enzyme for calibrating clinical biochemical analyzer ALT detection channels.
- Prepares internationally traceable ALT reference materials for inter-laboratory quality assessments and kit batch variability control.

Protein Structure and Inhibitor Screening

- Natural conformation (~100 kDa) suitable for crystallography or cryo-EM studies.
- High-throughput screening of small molecule ALT inhibitors to explore new therapeutic targets for diabetes or fatty liver disease.

Food Science and Fermentation Industry

- Monitors dynamic changes of pyruvate/glutamate during fermentation to optimize microbial metabolic pathways.
- Evaluates changes in ALT activity due to cell damage during meat product storage.

For research involving liver cell injury models, alanine- α -ketoglutarate metabolic flow, or ALT activity standards, this high-activity, label-free natural porcine-derived GPT is the laboratory's enzyme tool of choice.

Order today to accelerate your experiments!



Ongoing Promotion

Back-to-School Sale 2025 - 20% off

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High Purity, High Yield,
Bioactive, Batch Consistent,
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