

GPT2 Protein, Rat (sf9, His)

Cat. No.:	HY-P75797
Synonyms:	Alanine aminotransferase 2; ALT2; GPT 2; AAT2
Species:	Rat
Source:	Sf9 insect cells
Accession:	NP_001012057 (M1-S522)
Gene ID:	307759
Molecular Weight:	Approximately 48 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 10% Glycerol, 0.5 mM TCEP. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GPT2 Protein is predicted to enable L-alanine:2-oxoglutarate aminotransferase activity and participates in various processes, including the cellular response to insulin stimulus, positive regulation of gluconeogenesis, and response to testosterone. It is localized in both the extracellular space and mitochondrion. Recognized as a biomarker of type 2 diabetes mellitus, GPT2 is the orthologous counterpart to human GPT2 (glutamic--pyruvic transaminase 2). Notably, the gene displays biased expression, with prominent levels observed in the Adrenal (RPKM 312.5), Liver (RPKM 220.8), and eight other tissues, emphasizing its specific roles in metabolic processes and signaling pathways across various tissues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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