

Bioactive

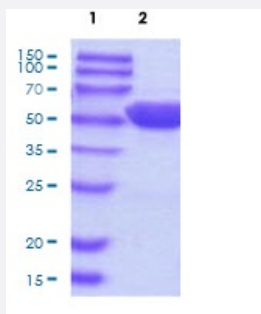
Full-Length

GPT (Human) Recombinant Protein

Catalog # P7949

Size 50 ug

Applications



Specification

Product Description

Human GPT (P24298, 1 a.a. - 496 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MASSTGDRSQAVRHGLRAKVLTDGMNPRVRRVEYAVRGPIVQRALELEQELRQGVKKPFTEVI
RANIGDAQAMGQRPITFLRQVLALCVNPDLLSSPNFPDDAKKRAERILQACGGHSLGAYSVSSGI
QLIREDVARYIERRDGGIPADPNNVFLSTGASDAIVTLKLLVAGEGHTRTGVLIPQYPLYSATLAE
LGAVQVDYYLDEERAWALDVAELHREALGQARDHCRPRALCVINPGNPTGQVQTRECEAVIRFAF
EERLFLLADEVYQDNVYAAGSQFHSFKKVLMMGPPYAGQQELASFHSTSKGYMGECGFRGGY
VEVVNMDAAVQQQMLKLMSVRLCPPVPGQALLDLVVSPPAPTDP SFAQFQAEKQAVLAELA
AKLTEQVFNEAPGISCNPVQGAMYSFPRVQLPPRAVERAQELGLAPDMFFCLRLLEETGICVVP
SGFGQREGTYHFRMTILPPELKLRLLEKLSRFHAKFTLEYS~

Host

Escherichia coli

Theoretical MW (kDa)

56.8

Form

Liquid

Preparation Method

Escherichia coli expression system

Purity

> 95% by SDS-PAGE

Activity

Specific activity is > 100 unit/mg, and is defined as the amount of enzyme that cleaves 1 umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37°C.

Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (20% glycerol, 2 mM DTT)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GPT

Entrez GeneID	2875
Protein Accession#	P24298
Gene Name	GPT
Gene Alias	AAT1, ALT1, GPT1
Gene Description	glutamic-pyruvate transaminase (alanine aminotransferase)
Omim ID	138200
Gene Ontology	Hyperlink
Gene Summary	Glutamate-pyruvate transaminase (EC 2.6.1.2), also known as alanine aminotransferase, catalyze s the reversible conversion of L-alanine and alpha-ketoglutarate to L-glutamate and pyruvate. It ha s 2 distinct molecular and genetic forms: one cytoplasmic (soluble) (GPT1) and one mitochondrial (GPT2; MIM 138210). See ALTQTL1 (MIM 612363) and ALTQTL2 (MIM 612364) for information on quantitative trait loci influencing the plasma level of alanine aminotransferase.[supplied by OMI M
Other Designations	alanine aminotransferase

Pathway

- [Alanine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)

- [Carbon fixation in photosynthetic organisms](#)
- [Metabolic pathways](#)