

Bioactive

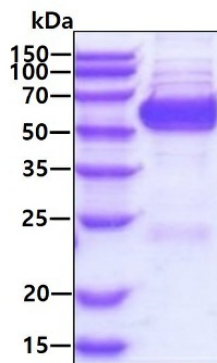
Full-Length

## GPT2 (Human) Recombinant Protein

Catalog # P7907

Size 50 ug

### Applications



SDS-PAGE analysis of GPT2 (Human) Recombinant Protein.

### Specification

#### Product Description

Human GPT2 (Q8TD30, 1 a.a. - 523 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

#### Sequence

MQRAAALVRRGCGPRTTPSSWGRSQSSAAAEASAVLKVRPERSRRERILTLESMNPQVKAVEYA  
VRGPVLKAGEIELELQRGIKKPFTEVIRANIGDAQAMGQQPITFLRQVMALCTYPNLLDSPSPED  
AKKRARRILQACGGNSLGSYSASQGVNCIREDVAAITRRDGGVPADPDNMLTTGASDGISTILKIL  
VSGGGKSRTGVMIPQYPLYSAVISELDAIQVNYLDEENCWALNVNELRRRAVQEAKDHCDPKVL  
CIINPGNPTGQVQSRKCIEDVIHFAWEEKLFLLADEVYQDNVYSPDCRFHSFKKVL YEMGPEYSSN  
VELASFHSTSKGYMGECGYRGGYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVNPPVAG  
EESFEQFSREKESVLGNLAKKAKLTEDLFNQVPGIHCNPLQGAMYAFPRIFIPAKAVEAAQAHQM  
APDMFYCMKLL EETGICVVP GSGFGQREGTYHFRMTILPPVEKLKTVLQKV KDFHINFLEKYA

#### Host

Escherichia coli

#### Theoretical MW (kDa)

60.3

#### Form

Liquid

#### Preparation Method

*Escherichia coli* expression system

#### Purity

> 90% as analyzed by SDS-PAGE.

Activity	Specific effect is > 100unit/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37°C
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of GPT2 (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl buffer, 0.2M NaCl, pH 7.5 (30% glycerol, 2mM DTT)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — GPT2

Entrez GeneID	<a href="#">84706</a>
Protein Accession#	<a href="#">Q8TD30</a>
Gene Name	GPT2
Gene Alias	ALT2
Gene Description	glutamic pyruvate transaminase (alanine aminotransferase) 2
Omim ID	<a href="#">138210</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	GPT (MIM 138200) and GPT2 (EC 2.6.1.2), also known as alanine transaminases, are pyridoxal enzymes that catalyze the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. By mediating the conversion of these 4 major intermediate metabolites, these transaminases have roles in gluconeogenesis and in amino acid metabolism.[supplied by OMIM]
Other Designations	alanine aminotransferase 2 glutamic pyruvate transaminase 2 glutamic--alanine transaminase glutamic--pyruvic transaminase glutamic-pyruvate transaminase 2

## Pathway

- [Alanine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Carbon fixation in photosynthetic organisms](#)
- [Metabolic pathways](#)