

Recombinant Full Length Human GPT2 Protein, C-Flag-tagged

Cat. No. GPT2-1258HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GPT2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a mitochondrial alanine transaminase, a pyridoxal enzyme that catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate. Alanine transaminases play roles in gluconeogenesis and amino acid metabolism in many tissues including skeletal muscle, kidney, and liver. Activating transcription factor 4 upregulates this gene under metabolic stress conditions in hepatocyte cell lines. A loss of function mutation in this gene has been associated with developmental encephalopathy. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57.7 kDa
AA Sequence	MQRAAALVRRGCGPRTTPSSWGRSQSSAAAEASAVLKVRPERSRRERILTLESMNP QVKAVEYAVRGPIVL KAGEIELELQRGIKKPFTEVIRANIGDAQAMGQQPITFLRQVM ALCTYPNLLDSPSPEDAKKRARRILQ ACGGNSLGSYSASQGVNCIREDVAAYITRR DGGVPADPDNIYLTGASDGISTILKILVSGGGKSRTGVM IPIQYPLYSAVISELDAI QVNYLDEENCWALNVNELRRRAVQEAKDHCDPKVLCIINPGNPTGQVQSRK CIEDV

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IHFAWEEKLFLLADEVYQDNVYSPDCRFHSFKKVLVYEMGPEYSSNVELASFHSTSK
 GYMGECEGYR GGYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVNPPVAGEE
 SFEQFSREKESVLGNLAKKAKLT EDLFNQVPGIHCNPLQGAMYAFPRIFIPAKAVEA
 AQAHQMAPDMFYCMKLEETGICVVPVSGSGFGQREGT
 YHFRMTILPPVEKLKTVLQKVKDFHINFLEKYASGPTRTRPLEQKLISEEDLAANDILD
 YKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Alanine, aspartate and glutamate metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

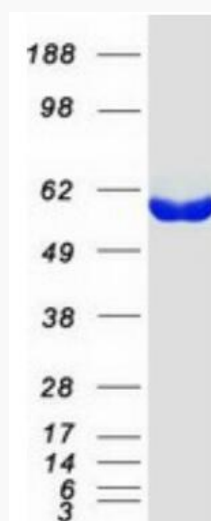
Gene Name	GPT2 glutamic--pyruvic transaminase 2 [Homo sapiens (human)]
Official Symbol	GPT2
Synonyms	ALT2; GPT 2; MRT49; NEDSPM

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Gene ID	84706
mRNA Refseq	NM_133443.4
Protein Refseq	NP_597700.1
MIM	138210
UniProt ID	Q8TD30



Coomassie blue staining of purified GPT2 protein.