

## Active Recombinant Human GOT1 protein, His-tagged

**Cat. No.** GOT1-60H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GOT1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Glutamic-oxaloacetic transaminase (GOT) is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl
<b>Bio-activity</b>	Specific activity is >50 units/mg, and is defined as the amount of enzyme that converts 1umole of a-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25C.
<b>Molecular Mass</b>	48.4 kDa(433aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MAPPSVFAEV PQAQPVLVFK LTADFREDPD PRKVN LGVGA YRTDDCHPWV LPVVKKVEQK IANDNSLNHEYLPIGLAEF RSCASRLALG DDSPALKEKR VGGVQSLGGT GALRIGADFL ARWYNGTNNK NTPVYVSSPT WENHNAVFS AAGFKDIRSYR YWDAEKRGLD LQGFLNDLEN

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APEFSIVVLH ACAHNPTGID PTPEQWKQIA SVMKHRFLFP FFDSAYQGFA  
 SGNLERDAWA IRYFVSEGFEFFCAQSFSKN FGLYNERVGN LTVVGKEPES  
 ILQVLSQMEK IVRITWSNPP AQQARIVAST LSNPELFEEW TGNVKTADR  
 ILTMRSELRARLEALKTPGT WNHITDQIGM FSFTGLNPKQ VEYLVNEKHI  
 YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ

**Endotoxin** < 1.0 EU per 1 microgram of protein (determined by LAL method)

**Purity** >95% by SDS - PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** GOT1 glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1) [ Homo sapiens ]

**Official Symbol** GOT1

**Synonyms** GOT1; glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1); aspartate aminotransferase, cytoplasmic; transaminase A; growth-inhibiting protein 18; glutamate oxaloacetate transaminase 1; GIG18; ASTQTL1;

**Gene ID** 2805

**mRNA Refseq** NM\_002079

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<b>Protein Refseq</b>	NP_002070
<b>MIM</b>	138180
<b>UniProt ID</b>	P17174
<b>Chromosome Location</b>	10q24.1-q25.1
<b>Pathway</b>	Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Cysteine and methionine metabolism, organism-specific biosystem;
<b>Function</b>	L-aspartate:2-oxoglutarate aminotransferase activity; L-aspartate:2-oxoglutarate aminotransferase activity; L-aspartate:2-oxoglutarate aminotransferase activity; L-phenylalanine:2-oxoglutarate aminotransferase activity; carboxylic acid binding; phosphatid

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