

Native Human Glutamic-Oxaloacetic Transaminase 1, Soluble (aspartate aminotransferase 1)

Cat. No. GOT1-5351H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native Human GOT1 is derived from Human Heart.
Species	Human
Source	Human Heart
Description	Two GOT isoenzymes are present in humans. They have high similarity. GOT1, the cytosolic isoenzyme, derives mainly from red blood cells and heart. GOT2, the mitochondrial isoenzyme is predominantly present in liver.
Form	Lyophilized
Molecular Weight	92 kDa
Endotoxin Level	< 0.1 ng/ug of protein
Biological Activity	One unit will catalyze the transamination of one micromole of L-aspartate to α -ketoglutarate forming L-glutamate and oxaloacetate per minute at 37°C and pH 7.8. Measured at 340 nm as one equimolar amount of NAD produced by a coupled reaction.
Storage	Store at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.
Pathways	Alanine, aspartate and glutamate metabolism; Arginine and proline metabolism;

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Cysteine and methionine metabolism; Metabolic pathways; Phenylalanine metabolism; Phenylalanine, tyrosine and tryptophan biosynthesis; Tyrosine metabolism

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); GIG18; aspartate aminotransferase, cytoplasmic; transaminase A; growth-inhibiting protein 18; glutamate oxaloacetate transaminase 1; EC 2.6.1.1

Gene ID 2805

mRNA Refseq NM_002079

Protein Refseq NP_002070

MIM 138180

UniProt ID P17174

Chromosome Location 10q24.1-q25.1

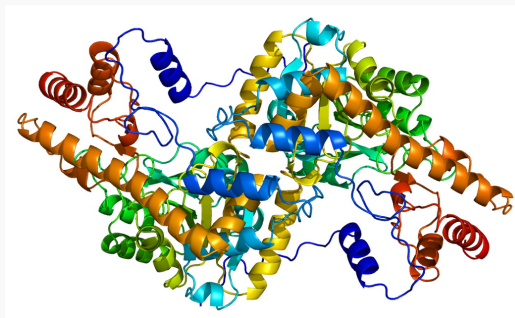
Function L-aspartate:2-oxoglutarate aminotransferase activity; carboxylic acid binding; phosphatidylserine decarboxylase activity; pyridoxal phosphate binding

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