

Recombinant Human GOT1, His-tagged

Cat. No. GOT1-2577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GOT1, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 48.4kDa (433aa).
Species	Human
Source	E.coli
Description	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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAPPSVFAEV PQAQPVLVFK LTADFREDPD PRKVN LGVGA YRTDDCHPWV LPVVKKVEQK IANDNSLNHE YLPILGLAEF RSCASRLALG DDSPALKEKR VGGVQSLGGT GALRIGADFL ARWYNGTNNK NTPVYVSSPT WENHNAVFS AAGFKDIRSYR YWDAEKRGLD LQGFLNDLEN APEFSIVVLH ACAHNPTGID PTPEQWKQIA SVMKHRFLFP FFDSAYQGFA SGNLERDAWA IRYFVSEGFE FFCAQSFSKN FGLYNERVGN LTVVGKEPES ILQVLSQMEK IVRITWSNPP AQGARIVAST LSNPELFEEW TGNVKTMA DR ILTMRSELRA RLEALKTPGT WNHTDQIGM FSFTGLNPKQ VEYLVNEKHI YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ
Purity	> 95% by SDS – PAGE.

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Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	GOT1 glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1) [Homo sapiens]
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
Pathway	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

Function

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

PDB rendering based on 1ajr.

