

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 *E.coli* 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 YWDAEKRLD LQGFLNDLEN
 APEFSIVVLH ACAHNPTGID PTPEQWKQIA SVMKHRFLFP FFDSAYQGFA
 SGNLERDAWA IRYFVSEGFE FFCAQSFSKN FGLYNERVGN LTVVGKEPES
 ILQVLSQMEK IVRITWSNPP AQQARIVAST LSNPELFEEW TGNVKT MADR
 ILTMRSELRA RLEALKTPGT WNHITDQIGM FSFTGLNPKQ VEYLVNEKHI
 YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ

Purity > 95% by SDS – PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

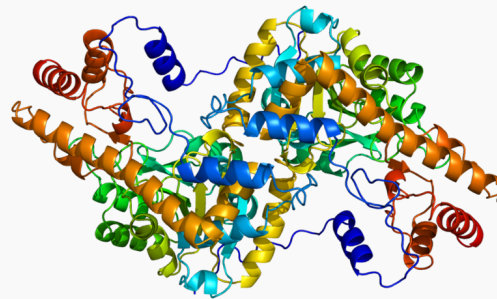
 45-1 Ramsey Road, Shirley, NY 11967, USA


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.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA