

Active Recombinant Human GOT2 protein, His-tagged

Cat. No. GOT2-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GOT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	30-430 aa
Description	GOT2, also known as glutamate oxaloacetate transaminase 2, belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. glutamate oxaloacetate transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and inner-membrane 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl
Bio-activity	Specific activity is >60 units/mg, and is defined as the amount of enzyme that convert 1umole of alpha-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25C.
Molecular Mass	47 kDa(424aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSSWWTHV EMGPPDPILG VTEAFKRD TN

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SKKMNLGVGA YRDDNGKPYV LPSVRKAEAQ IAAKNLDKEYLPIGGGLAEFC
 KASAEALGE NSEVLKSGRF VTVQTISGTG ALRIGASFLQ RFFKFSRDVF
 LPKPTWGNHT PIFRDAGMQL QGYRYYPKT CGFDFTGAVE DISKIQSV
 LLLHACAHNP TGVDPRPEQW KEIATVVKR NLFAFFDMAY QGFASGDGDK
 DAWAVRHFIE QGINVCLCQSYAKNMGLYGE RVGAFTMVCK DADEAKRVES
 QLKILIRPMY SNPPLNGARI AAAILNTPDL RKQWLQEVKV MADRIIGMRT
 QLVSNLKKEG STHNWQHITD QIGMFCFTGL KPEQVERLIK EFSIYMTKDG
 RISVAGVTSS NVGYLAHAH QVTK

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 GOT2 glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) [Homo sapiens]

Official Symbol GOT2

Synonyms GOT2; glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2); aspartate aminotransferase, mitochondrial; KAT4; KATIV; kynurenine aminotransferase IV; mitAAT; FABP-1; FABPpm; mAspAT; transaminase A; fatty acid-binding protein; glutamate oxaloacetate transaminase 2; plasma membrane-associated fatty acid-binding protein; FLJ40994;

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Gene ID	2806
mRNA Refseq	NM_002080
Protein Refseq	NP_002071
MIM	138150
UniProt ID	P00505
Chromosome Location	16q21
Pathway	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;
Function	L-aspartate:2-oxoglutarate aminotransferase activity; L-aspartate:2-oxoglutarate aminotransferase activity; L-aspartate:2-oxoglutarate aminotransferase activity; L-phenylalanine:2-oxoglutarate aminotransferase activity; pyridoxal phosphate binding;