

# Recombinant human GOT2 protein

Catalog Number: ATGP3143

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

30-430aa

### UniProt No.

P00505

### NCBI Accession No.

NP\_002071.2

### Alternative Names

Aspartate aminotransferase 2 mitochondrial, KAT4, KATIV, mitAAT

## PRODUCT SPECIFICATION

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### Molecular Weight

47 kDa (424aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Specific activity is > 60unit/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.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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## 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. Recombinant human GOT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

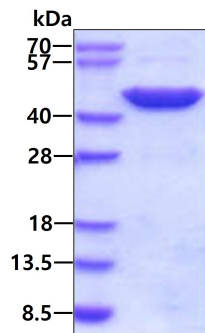
<MGSSHHHHHH SGLVPRGSH MGS>SSWTHV EMGPPDPILG VTEAFKRDTN SKKMNLGVGA YRDDNGKPYV  
LPSVRKAEAQ IAAKNLDKEY LPIGGLAEFC KASAEALALGE NSEVLKSGRF VTVQTISGTG ALRIGASFLQ RFFKFSRDVF  
LPKPTWGNHT PIFRDAGMQL QGYRYYDPKT CGFDFTGAVE DISKIPEQSV LLLHACAHPN TGVDPRPEQW KEIATVVKKR  
NLFAFFDMAY QGFASGDGDK DAWAVRHFIE QGINVCLCQS YAKNMGLYGE RVGAFTMVCK DADEAKRVES QLKILIRPMY  
SNPPLNGARI AAAILNTPDL RKQWLQEVKV MADRIIGMRT QLVSNLKKEG STHNWQHITD QIGMFCFTGL KPEQVERLIK  
EFSIYMTKDG RISVAGVTSS NVGYLAHAH QVTK

## General References

Guidetti P, Amori L, et al. (2007). J Neurochem. 102(1):103-11.  
Lain B, Iriarte A, et al. (1995). J Biol Chem. 270(42):24732-9.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.