

Recombinant mouse AST1/GOT1 protein

Catalog Number: ATGP3085

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-413aa

UniProt No.

P05201

NCBI Accession No.

AAH02057

Alternative Names

Transaminase A, Glutamate oxaloacetate transaminase 1 soluble, Glutamate oxaloacetate transaminase 1, Cytoplasmic, Cysteine transaminase, Cysteine aminotransferase, cCAT, cAspAT

PRODUCT SPECIFICATION

Molecular Weight

48.6 kDa (436aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is > 80unit/mg, and is defined as the amount of enzyme that converts 1.0 micromole 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

Description

Got1 also known as Glutamate oxaloacetate transaminase 1 is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT1 plays a role in amino acid

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metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. Recombinant mouse Got1 fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

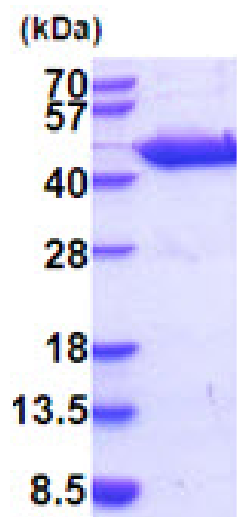
<MGSSHHHHHH SSSLVPRGSH MGS>MAPPSVF AQVPQAPPVL VFKLTADFRD DPDPKVNLG VGAYRTDESQ
PWVLPVVRKV EQKIANDNSL NHEYLPILGL AEFRSCASRL VLGDNPAIR ENRVGGVQSL GGTGALRIGA DFLGRWYNGT
DNKNTPIYVS SPTWENHNAV FSAAGFKDIR PYCYWDAEKR GLDLQGFLND LENAPEFSIF VLHACAHNPT GTDPTPEQWK
QIAAVMQRFF LPPFFDSAYQ GFASGDLEKD AWAIRYFVSE GFELFCAQSF SKNFGLYNER VGNLTVVGKE SDSVLRVLSQ
MEKIVRITWS NPPAQGARIV AATLSDPELF KEWKGNVKT M ADRILTMRSE LRARLEALKT PGTWSHITEQ IGMFSFTGLN
PKQVEYLVNE KHIYLLPSGR INMCGLTTKN LDYVATSIHE AVTKIQ

General References

Ballif B.A., et al. (2008) *J. Proteome Res.* 7:311-318

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)