

Recombinant human AST1/GOT1 protein

Catalog Number: ATGP3177

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-413aa

UniProt No.

P17174

NCBI Accession No.

NP_002070

Alternative Names

Glutamic-oxaloacetic transaminase 1, Aspartate aminotransferase 1, Aspartate transaminase 1, AST1, SGOT, AST, cAspAT, Cysteine aminotransferase cytoplasmic, Cysteine transaminase, Cytoplasmic, cCAT, Transaminase A

PRODUCT SPECIFICATION

Molecular Weight

48.4 kDa (433aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Biological Activity

Specific activity is > 50unit/mg, and is defined as the amount of enzyme that converts 1umole of a-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.

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BACKGROUND

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. Recombinant human GOT1, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

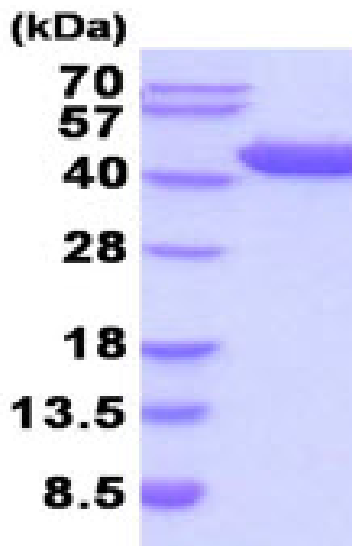
MGSSHHHHHHH SGLVPRGSH MAPPSVFAEV PQAQPVLVFK LTADFREDPD PRKVN LGVGA YRTDDCHPWV LPVVKKVEQK
IANDNSLNHE YLPILGLAEF RSCASRLALG DDSPALKEKR VGGVQSLGGT GALRIGADFL ARWYNGTNNK NTPVYVSSPT
WENHNAVFS AAGFKDIRSYR YWDAEKRGLD LQGFLNDLEN APEFSIVVLH ACAHNPTGID PTPEQWKQIA SVMKHRFLFP
FFDSAYQGFA SGNLERDAWA IRYFVSEGFE FFCAQSFSKN FGLYNERVGN LTVVGKEPES ILQVLSQMEK IVRITWSNPP
AQGARIVAST LSNPELFEEW TGNVKTADR ILTMRSELRA RLEALKTPGT WNHITDQIGM FSFTGLNPKQ VEYLVNEKHI
YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ

General References

Bousquet-Lemerrier B., et al. (1990) *Biochemistry* 29 (22): 5293-9.
Totan A., et al. (2006) *Clin Chem Lab Med.* 44(5):612-5.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)