Recombinant human AST1/GOT1 protein

Catalog Number: ATGP0600

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

Tag
His-Tag

Application
SDS-PAGE

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
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

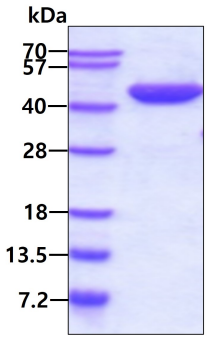
<MGSSHHHHHH SSGLVPRGSH> MAPPSVFAEV PQAQPVLVFK LTADFREDPD PRKVNLGVGA YRTDDCHPWV LPVVKKVEQK IANDNSLNHE YLPILGLAEF RSCASRLALG DDSPALKEKR VGGVQSLGGT GALRIGADFL ARWYNGTNNK NTPVYVSSPT WENHNAVFSA AGFKDIRSYR YWDAEKRGLD LQGFLNDLEN APEFSIVVLH ACAHNPTGID PTPEQWKQIA SVMKHRFLFP FFDSAYQGFA SGNLERDAWA IRYFVSEGFE FFCAQSFSKN FGLYNERVGN LTVVGKEPES ILQVLSQMEK IVRITWSNPP AQGARIVAST LSNPELFEEW TGNVKTMADR ILTMRSELRA RLEALKTPGT WNHITDQIGM FSFTGLNPKQ VEYLVNEKHI YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ

General References

Bousquet-Lemercier 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.