

Aspartate Aminotransferase (AST) Recombinant Protein | AST recombinant protein

Recombinant Aspartate Aminotransferase (AST)

CATALOG # AAA134312	HOST E.coli	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Western Blot, SDS-Page
-------------------------------	-----------------------	---	---

PRODUCT SYNONYMS

Aspartate Aminotransferase (AST); Recombinant Aspartate Aminotransferase (AST); AST recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 97%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Concentration	Original Concentration: 150ug/mL (varies by lot)
Sequence	MAPPSVFAQV PQAPPVLVFK LTADFRDDPD PRKVN LGVGA YRTDESQPWV LPVVRKVEQK IANDNSLNHE YLPILGLAEF RSCASRLVLG DNSLAIRENR VGGVQSLGGT GALRIGADFL GRWYNGTDNK NTPIYVSSPT WENHNAVFS A AGFKDIRPYC YWDAEKRLD LQGFLNDLEN APEFSIFVLH ACAHNPTGTD PTPEQWKQIA AVMQRRFLFP FFDSAYQGFA SGDLEKDAWA IRYFVSEGFE LFCAQSFSKN FGLYNERVGN LTVVGKESDS VLRVLSQMEK IVRITWSNPP AQGARIVAAT LSDPELFKEW KGNVKTMA DR ILTMRSELRA RLEALKTPGT WSHITEQIGM FSFTGLNPKQ VEYLVNEKHI YLLPSGRINM CGLTTKNLDY VATSIHEAVT KIQ
Applicable Applications for AST recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Met1~Gln413
Tags	N-terminal His Tag
Subcellular Location	Cytoplasm
Traits	Freeze-dried powder
Predicted isoelectric point	6.9
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.

Preparation and Storage

Storage:

Avoid repeated freeze/thaw cycles.
Store at 2-8 degree C for one month.
Aliquot and store at -80 degree C for 12 months.

Stability Test:

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Identification
Figure. Gene Sequencing (extract)

SDS-PAGE



NCBI AND UNIPROT INFORMATION

NCBI GI #	160298209
NCBI GeneID	14718
NCBI Accession #	NP_034454.2
NCBI GenBank Nucleotide #	NM_010324.2
UniProt Accession #	P05201; Q3UJH8
Molecular Weight	Predicted Molecular Mass: 47.5kDa Accurate Molecular Mass: 43kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	aspartate aminotransferase, cytoplasmic
NCBI Official Synonym Full Names	glutamate oxaloacetate transaminase 1, soluble
NCBI Official Symbol	Got1
NCBI Official Synonym Symbols	cCAT; Got-1; cAspAT; AI789014
NCBI Protein Information	aspartate aminotransferase, cytoplasmic; transaminase A; cysteine transaminase, cytoplasmic; cytosolic aspartate aminotransferase; cysteine aminotransferase, cytoplasmic
UniProt Protein Name	Aspartate aminotransferase, cytoplasmic
UniProt Gene Name	Got1
UniProt Synonym Gene Names	cAspAT; cCAT
UniProt Entry Name	AATC_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.