

Aspartate Aminotransferase (AST) Active Protein | AST active protein

Active Aspartate Aminotransferase (AST)

CATALOG # AAA153078	HOST E coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Aspartate Aminotransferase (AST); Active Aspartate Aminotransferase (AST); Aspartate Aminotransferase; AST active protein (prokaryotic); Mouse; cCAT; AAT; ASAT; SGOT; GOT1; Cysteine transaminase; cytoplasmic; Transaminase A; Aspartate Transaminase 1; Cytoplasmic; Glutamic-Oxaloacetic Transaminase 1; Soluble; AST active protein

PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	Greater than 97% by SDS-PAGE
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Sequence Positions	Met1~Gln413
Applicable Applications for AST active protein	Activity Assay, Cell Culture
Expression System	Prokaryotic expression
Species	Mouse
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.9
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.

IMAGES

Calculation

$$\text{AST specific activity} = \frac{OD \times d}{t} / \text{amount of protein}$$

Where:

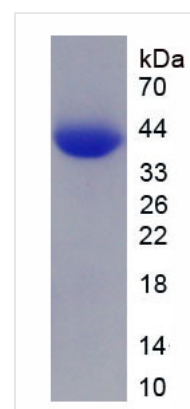
d - dilution factor

t - reaction time in minutes

The specific activity of recombinant rat AST is 6.3U/mg.

Bioactivity

Aspartate transaminase (AST) or aspartate aminotransferase, also known as AspAT/ASAT/AAT or glutamic oxaloacetic transaminase, is a pyridoxal phosphate-dependent transaminase enzyme. AST catalyzes the reversible transfer of an alpha-amino group between aspa



SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for AST active protein	Active proteins
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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	46,248 Da
NCBI Official Full Name	aspartate aminotransferase, cytoplasmic
NCBI Official Synonym Full Names	glutamic-oxaloacetic transaminase 1, soluble
NCBI Official Symbol	Got1
NCBI Official Synonym Symbols	cCAT; Got-1; cAspAT; AI789014
NCBI Protein Information	aspartate 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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/aspartate-aminotransferase-ast/153078>