

Aspartate Aminotransferase Active Protein | GOT1 active protein

Glutamate Oxaloacetate Transmainase

CATALOG #
AAA11475

PRODUCT SYNONYMS

Aspartate Aminotransferase; Glutamate Oxaloacetate Transmainase; GOT; Aspartate Transaminase; AST; GOT1 active protein

PRODUCT SPECIFICATIONS

Form/Format	Powder, lyophilized from sodium phosphate, pH7.0 with pyridoxal-5-phosphate
Sequence Length	413
EC Number	2.6.1.1
CAS Number	9000-97-9
Source	Porcine heart
Protein	0.69 mg protein/mg solid (Coomassie), 0.94 mg protein/mg solid (A_{280})
Activity	202 U/mg (Dimension Clinical Chemistry System)
Unit Definition	One unit will catalyze the transamination of one micromole of L-aspartate to (ALPHA)-ketoglutarate forming L-glutamate and oxaloacetate per minute at 37 degree C and pH 7.8
Specific Activity	292 U/mg protein (Coomassie), 214 U/mg protein (A_{280})
Appearance	Yellow to yellow-green powder
Contaminants	CPK: $\leq 0.1\%$ GLDH: $\leq 0.1\%$ GPT/ALT: $\leq 0.1\%$ LDH: $\leq 0.1\%$ MDH: $\leq 0.01\%$ Protease: $\leq 0.1\%$ (Equivalent to <0.001 O.D /8 min)
Ammonia	≤ 0.005 micromole/mg ($\leq 0.01\%$)
Reconstitution	≥ 1 mg/ml in tris buffered saline, 1% BSA, pH 8.0
Handling	Handle as a potentially hazardous substance.
Preparation and Storage	Aliquot and freeze at -20 degree C after reconstitution. Protect from moisture.

ADDITIONAL INFORMATION

Related Product Information for GOT1 active protein

We produce Porcine Heart Aspartate Transferase (AST), also known as Glutamate Oxaloacetate Transaminase (GOT) for research and manufacturing uses.

Custom preparations, technical support, bulk quantities and aliquoting available. Single batch sizes from 100,000 kU.

There are two SGOT/AST isoenzymes present in humans, they have high similarity. GOT1, the cytosolic isoenzyme derives mainly from red blood cells and heart. GOT2, the mitochondrial isoenzyme is predominantly present in liver.

Product Categories/Family for GOT1
active protein

Proteins; Antigens; Enzymes; Standards/controls; Native Proteins; Aspartate Aminotransferase (ast; Got)

NCBI AND UNIPROT INFORMATION

NCBI GI #	112976
NCBI GeneID	396967
UniProt Accession #	P00503
NCBI Official Full Name	Aspartate aminotransferase, cytoplasmic
NCBI Official Symbol	GOT1
NCBI Official Synonym Symbols	cCAT; CASPAT
NCBI Protein Information	aspartate aminotransferase, cytoplasmic; transaminase A; cysteine transaminase, cytoplasmic; glutamate oxaloacetate transaminase 1; cysteine aminotransferase, cytoplasmic
UniProt Protein Name	Aspartate aminotransferase, cytoplasmic
UniProt Gene Name	GOT1
UniProt Synonym Gene Names	cAspAT; cCAT
UniProt Entry Name	AATC_PIG

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/got1-active-protein/aspartate-aminotransferase/11475>