

Recombinant Human AST2, His-tagged

Cat. No. AST2-3667H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Aspartate Aminotransferase 2 (AST2)
Species	Human
Source	E.coli
ProteinLength	387
Description	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and inner-membrane 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. Two transcript variants encoding different isoforms have been found for this gene.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	46.2kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)

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Notes	Small volumes of AST2 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
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 of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Reconstitution	Reconstitute in sterile PBS, pH 7.2-pH 7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	AST2
Official Symbol	AST2
Synonyms	GOT2; GOT2; KAT4; KATIV; mitAAT; mAspAT;...
Gene ID	2806
mRNA Refseq	NM_001286220.1
Protein Refseq	NP_001273149.1

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MIM	138150
UniProt ID	P00505
Chromosome Location	Chromosome: 16; NC_000016.9 (58741035..58768246, complement). Location: 16q21
Function	?GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles

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