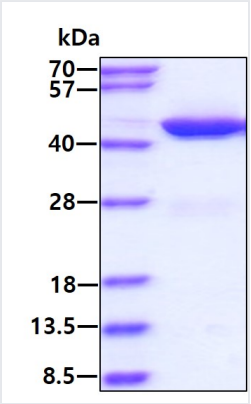
GOT2 Active Protein

PRODUCT OVERVIEW

Product Name	GOT2, Active Protein
Full Product Name	Recombinant GOT2
Product Gene Name	GOT2 active protein
Product Synonym Names	AATM_HUMAN; AL022787; Aspartate aminotransferase; Aspartate aminotransferase 2; Aspartate aminotransferase; mitochondrial; Aspartate transaminase 2; ASPATA; EC 2.6.1.1; FABP 1; FABP pm; FABP-1; FABPpm; Fatty acid binding protein; Fatty acid-binding protein; FLJ40994; Glutamate oxaloacetate transaminase 2; Glutamate oxaloacetate transaminase 2; mitochondrial; Glutamate oxaloacetate transaminase; mitochondrial; Glutamic oxaloacetic transaminase 2; mitochondrial (aspartate aminotransferase 2); Got 2; GOT2; KAT4; KATIV; kynurenine aminotransferase 4; Kynurenine aminotransferase IV; kynurenine-oxoglutarate transaminase 4; kynurenine-oxoglutarate transaminase IV; mAspAT; MGC102129; MGC115763; mitAAT; mitochondrial; Mitochondrial aspartate aminotransferase; OTTMUSP00000017748; Plasma membrane fatty acid binding protein; Plasma membrane-associated fatty acid-binding protein; Transaminase A
Sequence	MGSSHHHHHH SSGLVPRGSH M SSWWTHVEM GPPDPILGVT EAFKRDTNSK KMNLGVGAYR DDNGKPYVLP SVRKAEAQIA AKNLDKEYLP IGGLAEFCKA SAELALGENN EVLKSGRFVT VQTISGTGAL RVGASFLQRF FKFSRDVFLP KPSWGNHTPI FRDAGMQLQG YRYYDPKTCG FDFSGALEDI SKIPEQSVLL LHACAHNPTG VDPRPEQWKE IASVVKKKNL FAFFDMAYQG FASGDGDKDA WAVRHFIEQG INVCLCQSYA KNMGLYGERV GAFTVVCKDA EEAKRVESQL KILIRPLYSN PPLNGARIAA TILTSPDLRK QWLQEVKGMA DRIISMRTQL VSNLKKEGSS HNWQHITDQI GMFCFTGLKP EQVERLTKEF SVYMTKDGRI SVAGVTSGNV GYLAHAIHQV TK
Host	E Coli
Form/Format	Liquid; In Phosphate Buffered Saline (pH 7.4) Containing 10% Glycerol.
Purity/Purification	>90% by SDS-PAGE
Concentration	0.5mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	46.8 kDa (422aa), confirmed by MALDI-TOF
Sequence Positions	30-430aa
3D Structure	ModBase 3D Structure for P05202
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Mouse
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Biological Activity	Specific activity is > 20 units/mg, and is defined as the amount of enzyme that converts 1umole of alpha-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25C.
Product Categories/Family for GOT2 active protein	Enzymes & Proteases
Applications Tested/Suitable for GOT2 active protein	SDS-PAGE, Enzyme Activity

Related Product Information for GOT2 active protein	GOT2, also known aspartate aminotransferase, mitochondrial, belongs to the class-I Pyridoxal-phosphate-dependent aminotransferase family. Glutamate oxaloacetate 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. Recombinant mouse GOT2 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for GOT2 active protein	Honorat JA., et al. (2017) PLoS One. 12(11):e0187215. Han Q., et al. (2010) BMC Biochemistry. 11:19.
Other Notes	Small volumes of GOT2 active protein vial(s) 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 and additional dry ice fee may apply.
Searchable Terms for GOT2 purchase	MBS201147 is an active protein targeting GOT2. Also known as Recombinant GOT2. Host: E Coli.



SDS-Page of GOT2 active protein
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GOT2. It may not necessarily be applicable to this product.

NCBI GI #	6754036
NCBI GeneID	14719
NCBI Accession #	NP_034455.1
UniProt Primary Accession #	P05202
UniProt Related Accession #	P05202
GenBank Nucleotide #	NP_034455.1
NCBI Official Full Name	aspartate aminotransferase, mitochondrial
NCBI Official Synonym Full Names	glutamatic-oxaloacetic transaminase 2, mitochondrial
NCBI Official Symbol	Got2
NCBI Official Synonym Symbols	Got-2; Kyat4; mAspAT; FABP-pm; AL022787
UniProt Protein Name	Aspartate aminotransferase, mitochondrial
UniProt Synonym Protein Names	Fatty acid-binding protein; FABP-1; Glutamate oxaloacetate transaminase 2; Kynurenine aminotransferase 4; Kynurenine aminotransferase IV; Kynurenine--oxoglutarate transaminase 4; Kynurenine--oxoglutarate transaminase IV; Plasma membrane-associated fatty acid-binding protein; FABPpm; Transaminase A
UniProt Gene Name	Got2
UniProt Synonym Gene Names	Got-2; mAspAT; FABP-1; FABPpm

NCBI Protein Information	aspartate aminotransferase, mitochondrial
UniProt Comments for GOT2	Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). Plays a key role in amino acid metabolism. Important for metabolite exchange between mitochondria and cytosol. Facilitates cellular uptake of long-chain free fatty acids.
Research Articles on GOT2	**1.** GOT2-mediated ATP synthesis may be a pivotal mechanism underlying the protective effect of febuxostat against neurodegeneration in EA
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