Alanine Aminotransferase 2 (GPT2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alanine aminotransferase 2 (Gpt2), Recombinant Protein
Full Product Name	Recombinant Mouse Alanine aminotransferase 2 (Gpt2)
Product Gene Name	Gpt2 recombinant protein
Product Synonym Gene Name	Gpt2
Sequence	MQRAAVLVRR GSCPRASGPW GRSHSSAAAE ASAALKVRPE RSPRDRILTL ESMNPQVKAV EYAVRGPIVL KAGEIEMELQ RGIKKPFTEV IRANIGDAHA MGQQPITFLR QVMALCTYPN LLNSPSFPED AKKRARRILQ ACGGNSLGSY SASQGVNCIR EDVAAFITRR DGVPADPDNI YLTTGASDGI STILKLLVSG GGKSRTGVMI PIPQYPLYSA VISELDAVQV NYYLDEENCW ALNVDELRRA LRQAKDHCDP KVLCIINPGN PTGQVQSRKC IEDVIHFAWE EKLFLLADEV YQDNVYSPDC RFHSFKKVLY QMGHEYSSNV ELASFHSTSK GYMGECGYRG GYMEVINLHP EIKGQLVKLL SVRLCPPVSG QAAMDIVVNP PEPGEESFEQ FSREKEFVLG NLAKKAKLTE DLFNQVPGIQ CNPLQGAMYA FPRILIPAKA VEAAQSHKMA PDMFYCMKLL EETGICVVPG SGFGQREGTY HFRMTILPPV DKLKTVLHKV KDFHLKFLEQ YS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	57,944 Da
Sequence Positions	1-522, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8BGT5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Gpt2 recombinant protein	MBS1337267 is a recombinant protein targeting Gpt2. Also known as Recombinant Mouse Alanine aminotransferase 2 (Gpt2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Gpt2 recombinant 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Gpt2. It may not necessarily be applicable to this product.

NCBI GI #	27805389
NCBI GeneID	108682
NCBI Accession #	NP_776291.1

UniProt Primary Accession #	Q8BGT5
UniProt Secondary Accession #	Q8BVY7; Q8K1J3
UniProt Related Accession #	Q8BGT5
GenBank Nucleotide #	NM_173866.3
NCBI Official Full Name	alanine aminotransferase 2
NCBI Official Synonym Full Names	glutamic pyruvate transaminase (alanine aminotransferase) 2
NCBI Official Symbol	Gpt2
NCBI Official Synonym Symbols	ALT2; C87201; AU014768; AU041193; 4631422C05Rik
UniProt Protein Name	Alanine aminotransferase 2
UniProt Synonym Protein Names	Glutamate pyruvate transaminase 2; GPT 2; Glutamic--alanine transaminase 2; Glutamic--pyruvic transaminase 2
Protein Family	Glucose-6-phosphate/phosphate translocator
UniProt Gene Name	Gpt2
UniProt Synonym Gene Names	Aat2; ALT2; GPT 2
NCBI Protein Information	alanine aminotransferase 2
UniProt Comments for Gpt2	Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate.
Research Articles on Gpt2	**1.** The GPT2 gene demonstrates increasing expression in brain in the early postnatal period, and GPT2 protein localizes to mitochondria. Akin to the human phenotype, Gpt2-null mice exhibit reduced brain growth. Through metabolomics and direct isotope tracing experiments, we find a number of metabolic abnormalities associated with loss of Gpt2
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