

Serine--pyruvate aminotransferase Recombinant Protein | Agxt recombinant protein

Recombinant Mouse Serine--pyruvate aminotransferase, mitochondrial

CATALOG # AAA115043	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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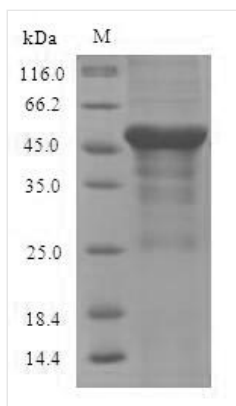
PRODUCT SYNONYMS

Serine--pyruvate aminotransferase; Recombinant Mouse Serine--pyruvate aminotransferase; mitochondrial; Alanine-glyoxylate aminotransferase (EC:2.6.1.44); AGT; Agxt recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	25-414. Full Length of Mature Protein
Sequence	SYQLLVPPPE ALSKPLSVPT RLLLGPGPSN LAPRVLAAGS LRMIGHMQKE MLQIMEEIKQ GIQYVFQTRN PLTLVVSGSG HCAMETALFN LLEPGDSFLT GTNGIWGMRA AEIADRIGAR VHQMIIKPGE HYTLQVEVEEG LAQHKKPVLLF LVHGESSTGV VQPLDGFGE CHRYQCILLV DSVASLGGVP IYMDQQGIDI MYSSSQKVLN APPGISLISF NDKAKYKVYS RKTTPVSFYT DITYLAKLWG CEGETRVIHH TTPVTSLYCL RESLALIAEQ GLENCWRRHR EATAHLHKHL QEMGLKFFVK DPEIRLPTIT TVTVPAGYNW RDIVSYVLDH FSIEISGGLG PTEERVLRI GLLGYNATTEN VDRVAEALRE ALQHCPKNKL
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Agxt recombinant protein	Dual metabolic roles of gluconeogenesis (in the mitochondria) and glyoxylate detoxification (in the peroxisomes).
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References	The mouse alanine:glyoxylate aminotransferase gene (Agxt1) cloning, expression, and mapping to chromosome 1.Li X.M., Salido E.C., Shapiro L.J.Somat. Cell Mol. Genet. 25:67-77(1999) Lineage-specific biology revealed by a finished genome assembly of the mouse.Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamouisis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P.PLoS Biol. 7:E1000112-E1000112(2009) Mural R.J., Adams M.D., Myers E.W., Smith H.O., Venter J.C. SIRT5-mediated lysine desuccinylation impacts diverse metabolic pathways.Park J., Chen Y., Tishkoff D.X., Peng C., Tan M., Dai L., Xie Z., Zhang Y., Zwaans B.M., Skinner M.E., Lombard D.B., Zhao Y.Mol. Cell 50:919-930(2013) Label-free quantitative proteomics of the lysine acetylome in mitochondria identifies substrates of SIRT3 in metabolic pathways.Rardin M.J., Newman J.C., Held J.M., Cusack M.P., Sorensen D.J., Li B., Schilling B., Mooney S.D., Kahn C.R., Verdin E., Gibson B.W.Proc. Natl. Acad. Sci. U.S.A. 110:6601-6606(2013) Crystal structure of putative aminotransferase (AAH25799.1) from Mus musculus at 1.65 Å resolution.Joint center for structural genomics (JCSG) Submitted (OCT-2009) to the PDB data bank
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NCBI AND UNIPROT INFORMATION

NCBI GI #	111038130
NCBI GeneID	11611
NCBI Accession #	NP_057911.2
NCBI GenBank Nucleotide #	NM_016702.3
UniProt Accession #	O35423; Q8R128
Molecular Weight	45.3 kDa
NCBI Official Full Name	serine--pyruvate aminotransferase, mitochondrial isoform 1
NCBI Official Synonym Full Names	alanine-glyoxylate aminotransferase
NCBI Official Symbol	Agxt
NCBI Official Synonym Symbols	AGT; SPT; Agt1; Agxt1
NCBI Protein Information	serine--pyruvate aminotransferase, mitochondrial; serine--pyruvate aminotransferase, peroxisomal
UniProt Protein Name	Serine--pyruvate aminotransferase, mitochondrial
UniProt Gene Name	Agxt
UniProt Synonym Gene Names	Agxt1; SPT; AGT
UniProt Entry Name	SPYA_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.