Recombinant Human 4-aminobutyrate aminotransferase, mitochondrial (ABAT)

Product Code	CSB-MP001032HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P80404
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	SQ AAAKVDVEFD YDGPLMKTEV PGPRSQELMK QLNIIQNAEA VHFFCNYEES RGNYLVDVDG NRMLDLYSQI SSVPIGYSHP ALLKLIQQPQ NASMFVNRPA LGILPPENFV EKLRQSLLSV APKGMSQLIT MACGSCSNEN ALKTIFMWYR SKERGQRGFS QEELETCMIN QAPGCPDYSI LSFMGAFHGR TMGCLATTHS KAIHKIDIPS FDWPIAPFPR LKYPLEEFVK ENQQEEARCL EEVEDLIVKY RKKKKTVAGI IVEPIQSEGG DNHASDDFFR KLRDIARKHG CAFLVDEVQT GGGCTGKFWA HEHWGLDDPA DVMTFSKKMM TGGFFHKEEF RPNAPYRIFN TWLGDPSKNL LLAEVINIIK REDLLNNAAH AGKALLTGLL DLQARYPQFI SRVRGRGTFC SFDTPDDSIR NKLILIARNK GVVLGGCGDK SIRFRPTLVF RDHHAHLFLN IFSDILADFK
Source	Mammalian cell
Target Names	ABAT
Protein Names	Recommended name: 4-aminobutyrate aminotransferase, mitochondrial EC= 2.6.1.19 Alternative name(s): (S)-3-amino-2-methylpropionate transaminase EC= 2.6.1.22 GABA aminotransferase Short name= GABA-AT Gamma-amino-N-butyr
Expression Region	29-500
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	4-aminobutyrate aminotransferase (ABAT) is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyridoxal-5-phosphate. The protein sequence is over 95% similar to the pig protein. GABA is estimated to be present in nearly one-third of human synapses. ABAT in liver and brain is controlled by 2 codominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficiency phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities. Multiple alternatively spliced transcript variants

	encoding the same protein isoform have been found for this gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.