

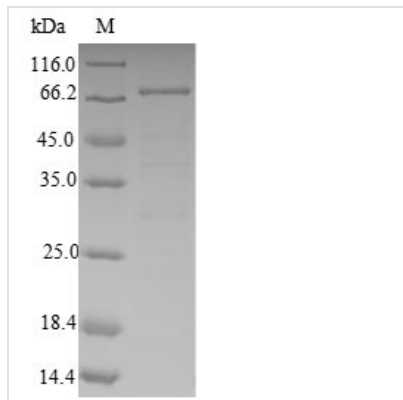


# Recombinant Human 4-aminobutyrate aminotransferase, mitochondrial (ABAT)

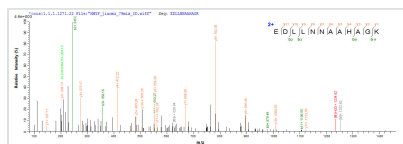
<b>Product Code</b>	CSB-EP001032HU
<b>Relevance</b>	Catalyzes the conversion of gamma-aminobutyrate and L-beta-aminoisobutyrate to succinate semialdehyde and methylmalonate semialdehyde, respectively. Can also convert delta-aminovalerate and beta-alanine.
<b>Abbreviation</b>	Recombinant Human ABAT protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P80404
<b>Alias</b>	(S)-3-amino-2-methylpropionate transaminase (EC:2.6.1.22) GABA aminotransferase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	SQAAAKVDVEFDYDGPLMKTEVPGPRSQELMKQLNIIQNAEAVHFFCNYEESR GNYLVDVDGNRMLDLYSQISSVPIGYSHPALLLKLIQQPNASMFVNRPALGILP PENFVEKLRQSLLSVAPKGMSQLITMACGSCSNENALKTIFMWYRSKERGQR GFSQEELETMINQAPGCPDYSILSFMGAFHGRTMGCLATTHSKAIHKIDIPSF DWPIAPFPRLKYPLEEFVKENQQEEARCLEEVEDLIVKYRKKKKTVAGIIVEPIQ SEGGDNHASDDFFRKLRLDIARKHGCAFLVDEVQTGGGCTGKFWAHEHWGLD DPADVMTFSKMMTGFFHKEEFRPNAPYRIFNTWLGDPSKNLLLAEVINIIR EDLLNNAAHAGKALLTGLLDLQARYPQFISRVRGRGTFCSDTPDDSIKRLILI ARNKGVVLGGCGDKSIRFRPTLVFRDHHHLFLNIFSDILADFK
<b>Research Area</b>	Neuroscience
<b>Source</b>	E.coli
<b>Target Names</b>	ABAT
<b>Protein Names</b>	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-butyrate
<b>Expression Region</b>	29-500aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	73.3kDa


**Protein Length**

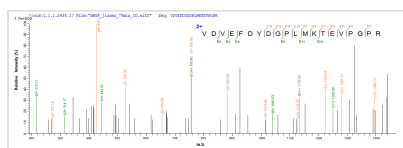
Full Length of Mature Protein

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP001032HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) ABAT.



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**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**

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