



# Recombinant Mouse Branched-chain-amino-acid aminotransferase, cytosolic (Bcat1)

<b>Product Code</b>	CSB-BP002600MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P24288
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MKDCSNGCSA PFAGERGSEE VAETFRAKDL IITPATVLKE KPDPDSL VFG ATFTDHMLTV EWSSASGW EK PHIKPFGNLP IHPAASVLHY AVELF EGLKA FRGVDNKIRL FRPDLNMDRM CRSVRTTLP MFDKEELLKC ILQLLQIDQE WVPYSTSASL YIRPTFIGTE PSLGVKKPSK ALLFVILSPV GPYFSSGSFT PVSLWANPKY IRAWKGGTGD CKMGGNYGAS LLAQCEAVEN GCQQVLWLYG KDNQITEVGT MNLFLYWINE DGEEELATPP LDGIILPGVT RQSILELAQQ WGEFKVCERH LTMDDLATAL EGNRVKEMFG SGTACVVCPV SDILYKGQML HIPTMENGPK LASRILGKLT DIQYGRVESD WTIELP
<b>Source</b>	Baculovirus
<b>Target Names</b>	Bcat1
<b>Protein Names</b>	Recommended name: Branched-chain-amino-acid aminotransferase, cytosolic Short name= BCAT(c) EC= 2.6.1.42 Alternative name(s): Protein ECA39
<b>Expression Region</b>	1-386
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes the cytosolic form of the enzyme branched-chain amino acid transaminase. This enzyme catalyzes the reversible transamination of branched-chain alpha-keto acids to branched-chain L-amino acids essential for cell growth. Two different clinical disorders have been attributed to a defect of branched-chain amino acid transamination: hypervalinemia and hyperleucine-isoleucinemia. As there is also a gene encoding a mitochondrial form of this enzyme, mutations in either gene may contribute to these disorders.
<b>Reconstitution</b>	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.
<b>Shelf Life</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.