



Recombinant Human Branched-chain-amino-acid aminotransferase, cytosolic (BCAT1)

Product Code	CSB-EP002600HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P54687
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MKDCSNGCSA ECTGEGGSKE VVGTFKAKDL IVTPATILKE KPDPNNLVFG TVFTDHMLTV EWSSEFGWEK PHIKPLQNLN LHPGSSALHY AVELFEGFLKA FRGVDNKIRL FQPNLNMDRM YRSAVRATLP VFDKEELLEC IQQLVKLDQE WVPYSTSASL YIRPTFIGTE PSLGVKKPTK ALLFVLLSPV GPYFSSGTFN PVSLWANPKY VRAWKGGTGD CKMGGNYGSS LFAQCEAVDN GCQQVLWLYG EDHQITEVGT MNLFLYWINE DGEEELATPP LDGIILPGVT RRCILDLAHQ WGEFKVSERY LTMDLTTAL EGNRVREMFG SGTACVVCPV SDILYKGETI HIPTMENGPK LASRILSKLT DIQYGREESD WTIVLS
Source	E.coli
Target Names	BCAT1
Protein Names	Recommended name: Branched-chain-amino-acid aminotransferase, cytosolic Short name= BCAT(c) EC= 2.6.1.42 Alternative name(s): Protein ECA39
Expression Region	1-386
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 protein
Target Details	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.
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.