

Recombinant Human BCAT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BCAT1-1842H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BCAT1 MS Standard C13 and N15-labeled recombinant protein (NP_005495) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Alternatively spliced transcript variants have been described.
Molecular Mass	42.8 kDa
AA Sequence	MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDPNNLVFGTVFTDHMLTVEWSSEFGWEKPHIKPLQNLSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGGNYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFYWINEDGEEELATPPLDG

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IILPGVTRRCILDLAHQWGEFKVVSERYLTMDLTTALEGNRVREMFGSGTACVVCPV
SDILYKGETIHIPTMENGPKLASRILSKLTDIQYGREESDWTIVLSTRTRPLEQKLISEE
DLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name BCAT1 branched chain amino acid transaminase 1 [Homo sapiens (human)]

Official Symbol BCAT1

Synonyms BCAT1; branched chain amino-acid transaminase 1, cytosolic; BCT1, branched chain aminotransferase 1, cytosolic; branched-chain-amino-acid aminotransferase, cytosolic; placental protein 18; branched chain aminotransferase 1, cytosolic; BCT1; PP18; BCATC; ECA39; MECA39; PNAS121; DKFZp686E12175;

Gene ID 586

mRNA Refseq NM_005504

Protein Refseq NP_005495

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MIM 113520

UniProt ID P54687

SDS-PAGE



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