

# 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

MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDNNLVFGTVFTDHMLTVEWSSEFGWEKPHIKPLQNLSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGGNYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFLYWINEDGEEELATPPLDG

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IILPGVTRRCILDLAHQWGEFKVSELYLTMDDLTTALEGNRVREMFSGGTACVVCPV  
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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