

Recombinant Human BCAT1 Protein, GST-tagged

Cat. No. BCAT1-129H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BCAT1 full-length ORF (AAH33864, 1 a.a. - 320 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	60.94 kDa
AA Sequence	MDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDNNLVFGTVFTDHML TVEWSSEFGWEKPHIKPLQNLSLHPGSSALHYAVELFEGKAFRGVDNKRILFQPNL NMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSL GVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGGNYG SSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNFLYWINEDGEEELATPPLDGII LPGVTRRCILDLAHQWDTLSLFSINLPDPLQFIYF

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	BCAT1 branched chain amino-acid transaminase 1, cytosolic [Homo sapiens]
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_001178091
Protein Refseq	NP_001171562
MIM	113520
UniProt ID	P54687

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