

Recombinant Full Length Human BCAT1 Protein, GST-tagged

Cat. No. BCAT1-1608HF 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	In Vitro Cell Free System
Protein Length	320 amino acids
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	MDCSNGCSAE CTGEGGSKEV VGTFKAKDLI VTPATILKEK PDPNNLVFGT VFTDHMLTVE WSSEFGWEKP HIKPLQNL SL HPGSSALHYA VELFEGLKAF RGVDNKIRLF QPNLNMDRMY RSAVRATLPV FDKEELLECI QQLVKLDQEW VPYSTSASLY IRPTFIGTEP SLGVKKPTKA LLFVLLSPVG PYFSSGTFNP

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VSLWANPKYV RAWKGGTGDC KMGGNYGSSL FAQCEAVDNG CQQVLWLYGE
 DHQITEVGTM NLFLYWINEE GEEELATPPL DGILPGVTR RCILDLAHQW
 DTELSLFSIN LPDFLQFIYF

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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