

Recombinant Human BCAT1, GST-tagged

Cat. No. BCAT1-10169H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BCAT1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-320a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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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
Chromosome Location	12pter-q12
Pathway	Branched-chain amino acid catabolism, organism-specific biosystem; Leucine degradation, leucine => acetoacetate + acetyl-CoA, organism-specific biosystem; Leucine degradation, leucine => acetoacetate + acetyl-CoA, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	L-isoleucine transaminase activity; L-leucine transaminase activity; L-valine transaminase activity; branched-chain-amino-acid transaminase activity; transferase activity;

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