

# Recombinant Human BCAT1 Protein, GST-tagged

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

## SPECIFICATION

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

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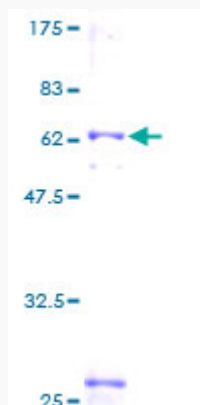
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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>        | BCAT1 branched chain amino-acid transaminase 1, cytosolic [ Homo sapiens ]                                                                                                                                                                                                                            |
| <b>Official Symbol</b>  | BCAT1                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>         | 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; |
| <b>Gene ID</b>          | 586                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_001178091                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>   | NP_001171562                                                                                                                                                                                                                                                                                          |
| <b>MIM</b>              | 113520                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>       | P54687                                                                                                                                                                                                                                                                                                |

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