

Full-Length

BCAT1 (Human) Recombinant Protein (P01)

Catalog # H00000586-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human BCAT1 full-length ORF (AAH33864, 1 a.a. - 320 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDCSNGCSAECTGEGGSKEVVGTGKAKDLVTPATILKEKPDNNLVFGTVFTDHMLTVEWSSE
FGWEKPHIKPLQNLSLHPGSSALHYAVELFEGKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLP
VFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGKKPTKALLFVLLSPVGPYFSSG
TFNPVSLWANPKYVRAWKGGTGDCKMGGNYGSSSLFAQCEAVDNGCQQVLWLYGEDHQITEVG
TMNLFLYWINEDGEEELATPPLDGIIILPGVTRRCILDLAHQWDTLSLFSINLPDFLQFIYF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.94

Interspecies Antigen Sequence

Mouse (84); Rat (74)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — BCAT1

Entrez GeneID[586](#)**GeneBank Accession#**[BC033864](#)**Protein Accession#**[AAH33864](#)**Gene Name**

BCAT1

Gene Alias

BCT1, DKFZp686E12175, ECA39, MECA39, PNAS-121, PP18

Gene Description

branched chain aminotransferase 1, cytosolic

Omim ID[113520](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

Other Designations

branched-chain-amino-acid aminotransferase, cytosolic|placental protein 18

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Metabolic pathways](#)
- [Pantothenate and CoA biosynthesis](#)
- [Valine](#)
- [Valine](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Overweight](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)