

Recombinant Mouse Bcat2 Protein, His-tagged

Cat. No. Bcat2-302M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bcat2 Protein (Ile223-Val393) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ile223-Val393
Description	Enables branched-chain-amino-acid transaminase activity. Acts upstream of or within branched-chain amino acid metabolic process; cellular response to leukemia inhibitory factor; and regulation of hormone levels. Located in mitochondrion. Is expressed in several structures, including alimentary system; genitourinary system; nervous system; respiratory system; and sensory organ. Used to study maple syrup urine disease. Orthologous to human BCAT2 (branched chain amino acid transaminase 2).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.9 kDa Accurate Molecular Mass: 23 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Bcat2 branched chain aminotransferase 2, mitochondrial [Mus musculus (house mouse)]
Official Symbol	Bcat2
Synonyms	BCAT2; branched chain aminotransferase 2, mitochondrial; branched-chain-amino-acid aminotransferase, mitochondrial; BCAT(m); Eca40; Bcat-2
Gene ID	12036
mRNA Refseq	NM_001243052
Protein Refseq	NP_001229981
UniProt ID	O35855