Probable branched-chain-amino-acid aminotransferase 4 (BCAT4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP04820*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Probable branched-chain-amino-acid aminotransferase 4 (BCAT4)

Product Gene Name
BCAT4 recombinant protein

Product Synonym Gene Name
BCAT4

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
MAPSAQPLPV SVSDEKYANV KWEELAFKFV RTDYMYVAKC NHGESFQEGK ILPFADLQLN PCAAVLQYGQ GLYEGLKAYR TEDGRILLFR PDQNGLRLQA GADRLYMPYP SVDQFVSAIK QVALANKKWI PPPGKGTLYI RPILFGSGPI LGSFPIPETT FTAFACPVGR YHKDNSGLNL KIEDQFRRAF PSGTGGVKSI TNYCPVWIPL AEAKKQGFSD ILFLDAATGK NIEELFAANV FMLKGNVVST PTIAGTILPG VTRNCVMELC RDFGYQVEER TIPLVDFLDA DEAFCTGTAS IVTSIASVTF KDKKTGFKTG EETLAAKLYE TLSDIQTGRV EDTKGWTVEI DRQG

Sequence Positions
1-354, Full length protein

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
39,019 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Methionine aminotransferase

NCBI Accession
NP_188605.1

NCBI GI
15230923

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Probable branched-chain-amino-acid aminotransferase 4 (BCAT4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP04820*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

NCBI GenBank Nucleotide
NM_112861.4

NCBI GeneID
821508

NCBI Official Full Name
branched-chain aminotransferase4

NCBI Official Symbol
BCAT4

NCBI Official Synonym Symbols
branched-chain aminotransferase4

NCBI Protein Information
branched-chain aminotransferase4

NCBI Summary
Belongs to the branched-chain amino acid aminotransferase gene family. Encodes a methionine-oxo-acid transaminase. Involved in the methionine chain elongation pathway that leads to the ultimate biosynthesis of methionine-derived glucosinolates.

UniProt Gene Name
BCAT4

UniProt Synonym Gene Names
Atbcat-4

UniProt Protein Name
Methionine aminotransferase BCAT4

UniProt Synonym Protein Names
Branched-chain-amino-acid aminotransferase 4; Atbcat-4; Methionine-oxo-acid transaminase BCAT4

UniProt Primary Accession
Q9LE06

UniProt Secondary Accession
Q0WW34

UniProt Related Accession
Q9LE06

UniProt Comments
Converts 2-oxo acids to branched-chain amino acids. Shows activity with L-Leu, L-Ile and L-Val as amino donors

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Probable branched-chain-amino-acid aminotransferase 4 (BCAT4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP04820*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

and alpha-ketoglutarate as an amino acceptor, but no activity for D-isomers of Leu, Ile, Val, Asp, Glu or Ala. Acts on methionine and its derivatives and the corresponding 2-oxo acids. Catalyzes the initial deamination of methionine to 4-methylthio-2-oxobutyrate as well as the transamination of other typical intermediates of the methionine chain elongation pathway.

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/