

Product datasheet for **TP319229L**

BCAT1 (NM_005504) Human Recombinant Protein

Product data:

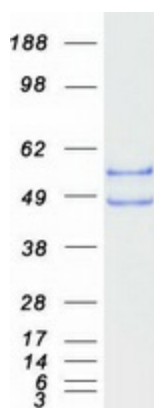
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human branched chain aminotransferase 1, cytosolic (BCAT1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219229 representing NM_005504 Red =Cloning site Green =Tags(s) MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKDPNNLVFGTVFTDHMLTVEWSSEFGWEK PHIKPLQNLSSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMYRS AVRATLPVFDKEELLEC IQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKY VRAWKGGTGDCMGGNYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFLYWINEDEEELATPP LDGIILPGVTRRCILDLAHQWGEFKVSERYLTMDLLTALLEGNRVREMFSGTACVVCPSDILYKGETI HIPTMENGPKLASRILSKLTDIQYGREESDWTIVLS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	42.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_005495</u>
Locus ID:	586



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UniProt ID:	P54687 , A0A024RAV0
RefSeq Size:	8191
Cytogenetics:	12p12.1
RefSeq ORF:	1158
Synonyms:	BCATC; BCT1; ECA39; MECA39; PNAS121; PP18
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. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2010]
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine biosynthesis, Valine, leucine and isoleucine degradation

Product images:



Coomassie blue staining of purified BCAT1 protein (Cat# [TP319229]). The protein was produced from HEK293T cells transfected with BCAT1 cDNA clone (Cat# [RC219229]) using MegaTran 2.0 (Cat# [TT210002]).