

BCAT2 Protein, Human (His, Strep)

Cat. No.:	HY-P701340
Synonyms:	BCAT2; Branched-chain-amino-acid aminotransferase; mitochondrial; BCAT(m); Placental protein 18; PP18
Species:	Human
Source:	E. coli
Accession:	O15382 (A28-V392)
Gene ID:	587
Molecular Weight:	Approximately 44.4 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	BCAT2 (Branched-chain amino acid transaminase 2) plays a key role in the catabolism of the essential branched-chain amino acids leucine, isoleucine, and valine. It catalyzes the first reaction in this process, involving the reversible transamination of these amino acids to their respective branched-chain alpha-keto acids. This enzymatic activity is crucial for regulating the levels of branched-chain amino acids and their metabolites, which are involved in various physiological processes, including energy metabolism and protein synthesis. Additionally, BCAT2 may function as a transporter for branched-chain alpha-keto acids, contributing to their cellular transport. It has to succinctly outline BCAT2's central role in branched-chain amino acid catabolism and suggests its potential involvement in the intracellular transport of related metabolites.
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Caution: Product has not been fully validated for medical applications. For research use only.

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