

## BCAT1 Protein, Human (His, Strep)

Cat. No.:	HY-P701338
Synonyms:	BCAT1; Branched-chain-amino-acid aminotransferase; cytosolic; BCAT(c); Protein ECA39
Species:	Human
Source:	E. coli
Accession:	P54687 (K2-S386)
Gene ID:	586
Molecular Weight:	

### 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	BCAT1 (Branched-chain amino acid transaminase 1) is an enzyme that catalyzes the initial reaction in the catabolism of the essential branched-chain amino acids leucine, isoleucine, and valine. This key step involves the reversible transamination of these amino acids, converting them into their respective branched-chain alpha-keto acids. BCAT1's enzymatic activity is crucial for regulating the levels of branched-chain amino acids and their metabolites, which play essential roles in various physiological processes, including energy metabolism and protein synthesis. It has to succinctly outline BCAT1's central role in the early stages of branched-chain amino acid catabolism, emphasizing its significance in maintaining amino acid homeostasis and supporting vital cellular functions.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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