

tdc Protein, *Levilactobacillus brevis*

Cat. No.:	HY-P702097
Synonyms:	tdc; L-tyrosine decarboxylase; TDC
Species:	Others
Source:	E. coli
Accession:	J7GQ11 (M1-V626)
Gene ID:	/
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	The tdc protein is an enzyme that catalyzes the decarboxylation of L-tyrosine to produce tyramine. This enzymatic activity is crucial for the conversion of tyrosine into tyramine, a process that contributes to the biosynthesis of various biologically active amines. Importantly, tdc exhibits specificity towards L-tyrosine and cannot utilize other aromatic L-amino acids such as L-phenylalanine, L-tryptophan, and L-glutamate as substrates. Notably, tdc can also decarboxylate levodopa (L-dopa), a medication used in the treatment of Parkinson's disease, to produce dopamine in vitro. This broader substrate specificity suggests potential implications for tdc in neurotransmitter synthesis and pharmaceutical applications, particularly in the context of Parkinson's disease therapy.
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Caution: Product has not been fully validated for medical applications. For research use only.

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