

Active Recombinant Cupriavidus necator tdh Protein, His-tagged

Cat. No. tdh-01C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cupriavidus necator tdh Protein with His tag was expressed in E.coli.
Species	Cupriavidus necator
Source	E.coli
Description	Threonine dehydrogenase (EC 1.1.1.103) is a β -NAD ⁺ coenzyme dependent enzyme, from the group of short chain alcohol dehydrogenases. It is a key enzyme in L threonine catabolism in microorganisms and mammals. The enzyme catalyzes conversion of l-threonine to 2-amino-3 ketobutyrate, with simultaneous reduction of NAD ⁺ .
Form	Lyophilized
Bio-activity	Specific activity is ≥ 2 U/mg
Molecular Mass	36.8 kDa
Purity	$\geq 95\%$
Usage	For Research Use Only! Not For Use in Humans.
Storage	Store the lyophilized protein at -20 centigrade. Reconstituted enzyme can be stored in working aliquots at -20 centigrade. Avoid repeated freeze-thaw cycles.

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Storage Buffer Proprietary buffer

Reconstitution Centrifuge the vial prior to opening. Reconstitute in distilled water.

GENE INFORMATION

Synonyms ThrDH; tdh; L-threonine 3-dehydrogenase; Threonine Dehydrogenase

UniProt ID [E5RQ20](#)

Activity of Active ThrDH Specific Activity of Threonine Dehydrogenase is ≥ 2 U/mg. In this reaction 1 μ g of ThrDH converts L-Threonine into 2-amino-3-oxobutyrates with concomitant reduction of NAD⁺ which was measured at 340 nm.

Size exclusion chromatography of ThrDH SEC analysis of Threonine Dehydrogenase using a Superose 6 Increase 5x150 column 50 mM sodium phosphate; 0.3 M NaCl pH 7.2 at 100 μ min

SDS-PAGE (4-20%) of recombinant ThrDH Recombinant Protein loaded under reducing conditions and stained with Coomassie Blue.

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