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	≥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
SDS-PAGE (4-20%) of recombinant ThrDH	Recombinant Protein loaded under reducing conditions and stained with Coomasie Blue.
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 µl/min
Activity of Active ThrDH	Specific Activity of Threonine Dehydrogenase is ≥2 U/mg. In this reaction 1 µg of ThrDH converts L-Threonine into 2-amino-3-oxobutyrate with concomitant reduction of NAD+ which was measured at 340 nm.

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