

Recombinant Human TDH protein, His & GST-tagged

Cat. No. TDH-1749H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TDH aa. (Met1~Cys229 (Accession # Q8IZJ6)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Cys229
Description	This gene appears to be an evolving pseudogene of L-threonine 3-dehydrogenase (TDH). In both prokaryotes and eukaryotes, TDH catalyzes the first of two steps in one of two L-threonine degradation pathways. However, in human, the single gene with sequence similarity to TDH is not capable of encoding a functional TDH protein; the predicted protein lacks most of the C-terminus and parts of the NAD ⁺ binding motif when compared to other species' TDH proteins. This suggests that the human gene is therefore a pseudogene. Transcripts of this gene are found in all tissues and alternatively spliced transcripts have been described. It is not known if these transcripts are translated, or if the possible protein product provides any functional role.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 55.3kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	9.6

GENE INFORMATION

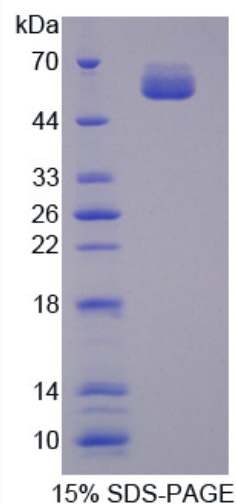
Gene Name	TDH L-threonine dehydrogenase (pseudogene) [Homo sapiens (human)]
Official Symbol	TDH
Synonyms	TDH; L-threonine dehydrogenase (pseudogene); SDR14E1P
Gene ID	157739
UniProt ID	Q8IZJ6

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SDS-PAGE



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