

Recombinant Human TH cell lysate

Cat. No. TH-527HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TH / Tyrosine Hydroxylase derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on

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	SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.
GENE INFORMATION	
Gene Name	TH tyrosine hydroxylase [Homo sapiens]
Official Symbol	TH
Synonyms	TH; tyrosine hydroxylase; tyrosine 3-monooxygenase; DYT5b; tyrosine 3 monooxygenase; dystonia 14; tyrosine 3-hydroxylase; TYH; DYT14;
Gene ID	7054
mRNA Refseq	NM_000360
Protein Refseq	NP_000351
MIM	191290
UniProt ID	P07101

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Chromosome Location	11p15.5
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Amine-derived hormones, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Catecholamine biosynthesis, organism-specific biosystem;
Function	amino acid binding; dopamine binding; ferric iron binding; ferrous iron binding; iron ion binding; metal ion binding; oxygen binding; protein binding; protein domain specific binding; tetrahydrobiopterin binding; tyrosine 3-monooxygenase activity; tyrosine 3-monooxygenase activity;

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