

Recombinant Human Thyroid Peroxidase

Cat. No. TPO-701H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TPO is expressed from human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 80 to 85 kDa.
Species	Human
Source	HEK293
Description	This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media and other applications. C terminal domain glycosylation is thought to be important for the secretion of TPO from cells and for survival of TPO in the circulation. The purity is greater than 90%.
Molecular Weight	80 to 85 kDa, monomer, glycosylated
Purity	>95% The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Endotoxin Level	Endotoxin Free <1 EU/g
Biological Activity	0.5 to 5 ng/mL ED50
Specific Activity	The specific activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

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OfficialSymbol TPO

GENE INFORMATION

Gene Name TPO thyroid peroxidase [[Homosapiens](#)]

Synonyms TPO; thyroidperoxidase; MSA; TPX; TDH2A; thyroperoxidase; OTTHUMP00000115303; OTTHUMP00000115304; OTTHUMP00000115535; OTTHUMP00000115536; thyroidmicrosomal antigen; EC 1.11.1.8; EC 1.11.1

Gene ID [7173](#)

mRNA Refseq [NM_000547](#)

Protein Refseq [NP_000538](#)

MIM [606765](#)

UniProt ID P07202

Chromosome Location 2p25

Pathway Amine-derivedhormones; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway; Metabolic pathways; Metabolism; Metabolism of amino acids and derivatives; Thyroid hormonebiosynthesis; Thyroxine biosynthesis; Tyrosine metabolism

Function calcium ion binding; heme binding; iodide peroxidase activity; oxidoreductase activity; peroxidaseactivity

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