Native Human Thyroid Peroxidase

Cat. No. TPO-702H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human TPO is purifiedHuman Thyroid Glands.
Species	Human
Source	Human Thyroids
Description	Thyroid Peroxidase(TPO) is a membrane-bound glycoprotein. TPO acts as an enzyme and plays acentral role in thyroid gland function. It functions in the iodination oftyrosine residues in thyroglobulin and phenoxy-ester formation between pairsof iodinated tyrosines to generate the thyroid hormones, Thyroxine andTriiodothyronine. Mutations in TPO are associated with several disorders ofthyroid hormonogenesis, including congenital hypothyroidism, congenitalgoiter, and thyroid hormone organification defect IIA.
Form	Liquid in 20 mM Tris+ 50 mM KCl, pH 7.5 without preservative
Concentration	1.0 mg/mL
Purity	>98% by SDS-PAGE
Storage	Store in workingaliquots at -20°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	TPO

GENE INFORMATION

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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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