

Native Human Thyroid Peroxidase

Cat. No. TPO-8266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Thyroid Peroxidase was purified from Human Thyroid Tissue.
Species	Human
Source	Human Thyroids
Description	Human Thyroid peroxidase (TPO) is an enzyme mainly expressed in the thyroid that liberates iodine for addition onto tyrosine residues on thyroglobulin for the production of thyroxine (thyroid hormone).
Form	Frozen Liquid with sodium azide as a preservative
Purity	>90% pure by SDS PAGE
Stability	1 year
Storage	-20 °C
Concentration	Typically >1.0 mg/mL

GENE INFORMATION

Gene Name	TPO thyroid peroxidase [Homo sapiens]
Official Symbol	TPO

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Synonyms	TPO; thyroid peroxidase; TPX; thyroperoxidase; thyroid microsomal antigen; MSA; TDH2A;
Gene ID	7173
mRNA Refseq	NM_000547
Protein Refseq	NP_000538
MIM	606765
UniProt ID	P07202
Chromosome Location	2p25
Pathway	Amine-derived hormones, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	calcium ion binding; heme binding; iodide peroxidase activity; oxidoreductase activity; peroxidase activity;