

Recombinant Human TPO, MYC/DDK-tagged

Cat. No. TPO-24H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPO, transcript variant 1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined.
Molecular Mass	102.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	TPO thyroid peroxidase [Homo sapiens (human)]
Official Symbol	TPO
Synonyms	TPO; thyroid peroxidase; TPX; TDH2A; MSA; thyroperoxidase; EC 1.11.1.8; EC 1.11.1; OTTHUMP00000115535; OTTHUMP00000115536; thyroid microsomal antigen; NP_000538.3; NP_001193673.1; NP_001193674.1; NP_783650.1; NP_783652.1; NP_783653.1
Gene ID	7173
mRNA Refseq	NM_000547
Protein Refseq	NP_000538
MIM	606765
UniProt ID	P07202
Chromosome Location	2p25
Pathway	Amine-derived hormones; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway
Function	calcium ion binding; iodide peroxidase activity; peroxidase activity

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