

Active Recombinant Human TPO, HlgG1 Fc-tagged

Cat. No. TPO-345H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human TPO(AAC37566.1)(Ser22-Gly353) is fused to the N-terminus of the Fc region of a human IgG1 was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	22-353 a.a.
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
Form	Lyophilized from 0.2 µm-filtered solution in PBS.
Bio-activity	Measured in a cell proliferation assay.
Molecular Mass	62KDa (monomer)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	Ser22-Gly353
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
Purity	>98%, by SDS-PAGE under reducing conditions
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100 μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

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

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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;

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