

Recombinant Human TPO Protein, Fc-tagged

Cat. No. TPO-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPO Protein with Fc tag was expressed in HEK293.
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.
Form	Liquid
AA Sequence	SPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLGEWKTQME ETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGAQSLLGTQLP PQGRTTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLT LNELPNRTSGLLETNFTASARTTGSGLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLN RIHELLNGTRGLFPGPSRRTLGA PDISSGTS DTGSLPPNLQPGYSPSPHTPPTGQYT LFPLPPTLPTPVVQLHPLLDPDSAPTPTPTSPLLNTSYTHSQNLSQEGLEVLFFQGGG

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GGSDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVK
 FNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVHLQDWLNGKEYKCKVSNKALP
 APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQ
 PENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSL
 SLSPGK*

Purity > 90% determined by SDS-PAGE (Reduced)

Storage Store at -20 to -80 centigrade.

Storage Buffer PBS, pH 6.8

GENE INFORMATION

Gene Name TPO thyroid peroxidase [Homo sapiens (human)]

Official Symbol TPO

Synonyms TPO; thyroid peroxidase; MSA; TPX; TDH2A; thyroid peroxidase; thyroid microsomal antigen; thyroperoxidase; EC 1.11.1.8

Gene ID 7173

mRNA Refseq NM_000547

Protein Refseq NP_000538

MIM 606765

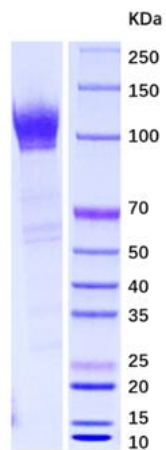
UniProt ID P07202

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SDS-PAGE



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