Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human TPO Protein; His Tag

Product Information

Product Name Human TPO Protein; His Tag

Storage temp. Store at \leq -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-87861RP-100 / 100 μg

GM-87861RP-1000 / 1 mg

Protein Information

Alternative Names THPO,MGC163194,MGDF,MKCSF,ML,MPLLG,TPO,THCYT1

Source Human TPO Protein; His Tag (GM-87861RP) is expressed from human 293 cells

(HEK-293). It contains AA Ser 22 - Gly 353 (Accession # P40225-1).

This protein carries a His tag at the C-terminus.

Purity > 95% as determined by SDS-PAGE

Endotoxin <1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 37.2 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.4.

Description Thyroid peroxidase (TPO) is a key enzyme in thyroid hormone synthesis,

primarily located in thyroid follicular cells. TPO catalyzes the iodination reaction, oxidizing iodide ions into active iodine and promoting the coupling of iodinated tyrosine residues, ultimately producing the thyroid hormones T3 (triiodothyronine) and T4 (thyroxine), which play an essential role in maintaining

normal metabolism and physiological function.

Medically, TPO is closely associated with various thyroid diseases. Autoimmune thyroid diseases (such as Hashimoto's thyroiditis and Graves' disease) are often accompanied by the presence of autoantibodies against TPO (TPO-Ab) in patients. The detection of these antibody levels has become an important tool for diagnosing autoimmune thyroid diseases, and mutations in the TPO gene may

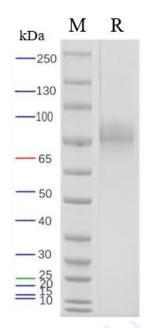
also lead to conditions like congenital hypothyroidism.

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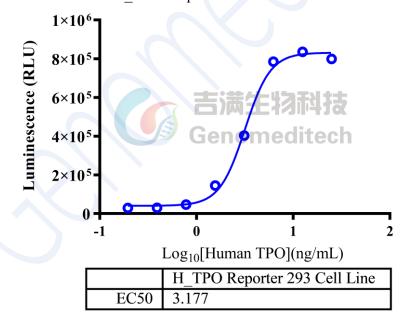
SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity CELL BASE

H_TPO Reporter 293 Cell Line



Human TPO Protein; His Tag (Catalog # GM-87861RP) was added into H_TPO Reporter 293 Cell Line (Catalog # GM-C30062) and stimulates TPO/TPOR signals.