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32-6932: TPO Human, Biotin

Alternative Name : Thyroid peroxidase, EC 1.11.1.8, TPO, MSA, TPX.

Description

Source: Sf9 insect cells.
Sterile Filtered clear solution.
Thyroid Peroxidase (TPO) represents one of the main autoantigenic targets in autoimmune thyroid disease of humans. Its identity with the formerly so-called `microsomal antigen` has been shown several years ago. As an integral membrane glycoprotein it is restricted to the apical plasma membrane of the follicular epithelial cells and comprises two identical subunits of approx. 100 kDa molecular weight. The hemoprotein TPO plays a key role in the thyroid hormone biosynthesis by catalysing both the iodination of tyrosyl residues and the coupling of iodotyrosyl residues in thyroglobulin (TG) to form precursors of the thyroid hormones T4 and T3.
Thyroid Peroxidase Human Recombinant produced in SF9 is a Biotinylated, glycosylated, polypeptide chain containing 834 amino acids and having a molecular mass of 93 kDa (excluding glycosylation). The TPO is expressed with a -6xHis tag at C-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	50 µg / 100 µg
Purification :	Greater thanÂ 95% as determined by SDS-PAGE.
Content :	TPO is supplied in 16mM HEPES pH-7.6, 160mM NaCl, 0.08mM KI and 20% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.