

Thyroid Peroxidase from Human, Recombinant

Cat. No. NATE-0919

Lot. No. (See product label)

Introduction

Description 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.

Applications Western-Blot

Synonyms Thyroid peroxidase; EC 1.11.1.8; TPO; MSA; TPX; iodotyrosine deiodase; iodinase; iodoperoxidase

(heme type); iodide peroxidase-tyrosine iodinase; iodotyrosine deiodinase; monoiodotyrosine

deiodinase; thyroperoxidase; tyrosine iodinase; iodide peroxidase

Product Information

Species Human

Source Sf9 insect cells

CAS No. 9031-28-1

Molecular

92,872 Da

Weight

Purity Greater than 95% as determined by SDS-PAGE.

Concentration 0.15-0.375 μ g/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation

and iodination.

Buffer TPO is supplied in 16mM HEPES pH-7.6, 160mM NaCl, 0.08mM Kl and 20% glycerol.

Storage and Shipping Information

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.

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