

Thyroid Peroxidase Recombinant Protein | TPO recombinant protein

Recombinant Human Thyroid Peroxidase, Biotinylated

CATALOG # AAA38046	HOST Sf9 insect cells.
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PRODUCT SYNONYMS

Thyroid Peroxidase; Recombinant Human Thyroid Peroxidase; Biotinylated; Thyroid Peroxidase Human Recombinant; Biotinylated; Thyroid peroxidase; EC 1.11.1.8; TPO; MSA; TPX; TPO Human; Biotin; TPO recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells.
Purity/Purification	Greater than 80% as determined by SDS-PAGE.
Form/Format	Sterile filtered clear solution. Supplied in 16mM HEPES pH-7.6, 160mM NaCl, 0.08mM KI and 20% glycerol.
Sequence Length	933
Immunological Functions	1. Binds IgG-type human auto-antibodies. 2. Auto-antibodies to TPO recognize conformation-dependent epitopes. 3. Functional Streptavidin based ELISA test (analysis of positive/negative samples.)
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TPO recombinant protein	Description: 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. Introductions: 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.
Product Categories/Family for TPO recombinant protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	160281455
NCBI GeneID	7173
UniProt Accession #	P07202 ; P09934 ; P09935 ; Q8IU00 ; Q8NF94 ; Q8NF95 ; Q8NF96 ; Q8NF97 ; Q8TC19
Molecular Weight	96,699 Da
NCBI Official Full Name	Thyroid peroxidase
NCBI Official Synonym Full Names	thyroid peroxidase

NCBI Official Symbol	TPO
NCBI Official Synonym Symbols	MSA; TPX; TDH2A
NCBI Protein Information	thyroid peroxidase
UniProt Protein Name	Thyroid peroxidase
UniProt Gene Name	TPO
UniProt Synonym Gene Names	TPO

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/tpo-recombinant-protein-sf9/38046>