

Recombinant Human Thyroid Peroxidase (TPO) Recombinant Protein

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CATALOG #
AAA47958

HOST
Insect Cell

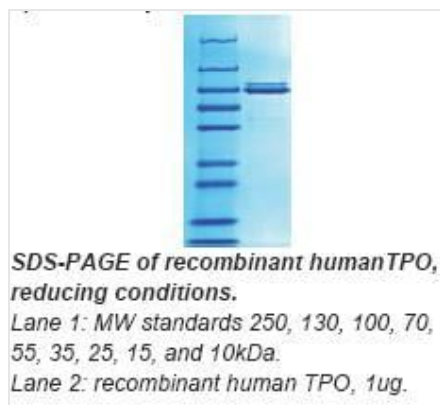
PRODUCT SYNONYMS

Recombinant Human Thyroid Peroxidase (TPO); Recombinant Human Thyroid Peroxidase (TPO) recombinant protein

PRODUCT SPECIFICATIONS

Host	Insect Cell
Specificity	Recombinant Human Thyroid Peroxidase (TPO)
Purity/Purification	Greater than 95% as determined by SDS-PAGE. Identity confirmed by MALDI mass spectrometry.
Form/Format	Lyophilized from 20mM Tris-HCl, pH 8.0, 250mM NaCl, 0.1mM KI, 5% D-mannitol. Reconstitute with sterile deionized H ₂ O.
Preparation and Storage	Store at 20 degree C in lyophilized form. After reconstitution, store at -70 degree C. Avoid repeated freezing and thawing.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Recombinant Human Thyroid Peroxidase (TPO) recombinant protein

Thyroid peroxidase (TPO) is an integral apical membrane glycoprotein of thyroid follicular cells and plays a key role in thyroid hormone biosynthesis. It is a homodimer comprised of two identical subunits of approx. 100kDa. TPO is one of the main autoantigenic targets in autoimmune thyroid disease of humans. Anti-TPO autoantibodies are present in 90% of cases of Hashimoto's thyroiditis and 75% of cases of Graves' disease.

Recombinant human TPO produced in insect cells corresponds to aa 19-846 (calculated molecular weight approx. 92kDa) of the soluble extracellular domain of human TPO. It does not contain any tags. It is purified by specific monoclonal antibody-based affinity and ion exchange chromatographic methods. In SDS-PAGE, two bands in the region of 100-110kDa are observed due to differential glycosylation of the protein. Immunoreactivity of rhuTPO is confirmed by ELISA with patient serum samples containing anti-TPO autoantibodies.

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.

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Online datasheet: <https://stage.aaabiotech.com/recombinant-human-thyroid-peroxidase-tpo-recombinant-protein-insect-cell/47958>