

RECOMBINANT HUMAN THYROID PEROXIDASE (TPO)

Protein Expressed:	Amino acids 1- 839 of TPO.
Expression System:	Baculovirus / insect cell (SF9 cells) system.
Purity:	Homogeneous peak on size exclusion chromatography; ≤3% aggregate material.
Available Forms:	Lyophilized (0.5mg and 1mg vials available) and in frozen solution (1 – 2.5 mg/mL).
TPO Enzyme Activity:	Minimum of 100 Guaiacol units per mg; OD412 /OD280 ≥ 0.2.
Applications:	Suitable for coating ELISA plates, plastic tubes and magnetic particles for use in TPO antibody assays. Also suitable for iodination or biotinylation and studies on TPO enzyme activity.
Literature:	<p>“High-level expression of recombinant immunoreactive thyroid peroxidase in the High Five insect cell line” F Grennan Jones et al J Mol Endocrinol 1996 17: 165-174</p> <p>“Recombinant human thyroid peroxidase expressed in insect cells in soluble at high concentrations and forms diffracting crystals” E Hendry et al J Endocrinol 1999 160: R13-R15</p> <p>“Recombinant human thyroid peroxidase produced in insect cells has similar properties to native human thyroid peroxidase” P Gut et al Thyroid 2000 10: 543-550</p>