

RSR

SPECIFICATIONS

RECOMBINANT HUMAN THYROID PEROXIDASE (TPO)

RSR – rhTPO High 5

- Protein Expressed:** Amino acids 1 - 839 of TPO
- Expression System:** Baculovirus/ insect cell (Trichoplusia ni ; High Five)
- Purity:** Homogeneous peak on size exclusion chromatography; ≤3% aggregate material
- TPO Enzyme Activity:** Minimum of 300 Guaiacol units per mg; OD412 /OD280 ≥ 0.3
- Available Forms:** As frozen liquid vials containing TPO, 1 – 2.5 mg/mL in 50mmol/L NaCl, 20mmol/L Tris-HCl pH7.6, 0.1mmol/L KI
- Order code:** rTPO/FR/
- Applications:** Particularly suitable for studies of TPO enzyme activity
- Storage:** -70°C or below
- Literature:**
- “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
- “Recombinant human thyroid peroxidase expressed in insect cells is soluble at high concentrations and forms diffracting crystals”
E Hendry et al
J Endocrinol 1999 **160**: R13-R15
- “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

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