

# RSR Ltd

## SPECIFICATIONS

### RECOMBINANT HUMAN THYROID PEROXIDASE (TPO)

<b>Protein Expressed:</b>	Amino acids 1- 839 of TPO
<b>Expression System:</b>	Baculovirus / insect cell (SF9 cells) system
<b>Purity:</b>	Homogeneous peak on size exclusion chromatography; ≤3% aggregate material
<b>Available Forms:</b>	Lyophilized (0.5mg and 1mg vials available) and in frozen solution (1 – 2.5 mg/mL)
<b>TPO Enzyme Activity:</b>	Minimum of 100 Guaiacol units per mg; OD412 /OD280 ≥ 0.2
<b>Applications:</b>	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
<b>Storage:</b>	-20°C
<b>Order code:</b>	SF9/FD/0.5 SF9/FD/1.0
<b>Literature:</b>	“High-level expression of recombinant immunoreactive thyroid peroxidase in the High Five insect cell line” F Grennan Jones et al J Mol Endocrinol 1996 <b>17</b> : 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 <b>160</b> : R13-R15  “Recombinant human thyroid peroxidase produced in insect cells has similar properties to native human thyroid peroxidase” P Gut et al Thyroid 2000 <b>10</b> : 543-550