

## TPO

### Native Human Thyroid Peroxidase

<b>Catalog No.</b>	CSI11064	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	MSA, TPX, TDH2A		
<b>Description:</b>	Thyroid Peroxidase (TPO) is a membrane-bound glycoprotein. TPO acts as an enzyme and plays a central role in thyroid gland function. It functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, Thyroxine and Triiodothyronine. Mutations in TPO are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA.		
<b>Concentration:</b>	~1.0 mg/mL		
<b>GenelD:</b>	7173		
<b>Source:</b>	Human Thyroid Glands		
<b>Formulation:</b>	Lyophilized in 20 mM Tris + 50 mM KCl + 0.1 mM KI with no preservatives added.		
<b>Purity:</b>	~95% by SDS-PAGE		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute with sterile, distilled water.		
<b>Storage &amp; Stability:</b>	+4°C for shipping purposes only. After receipt, store lyophilized product at -20°C. After reconstitution, store in working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Certification:</b>	Raw material tested by EIA and found to be negative for HBsAg, anti-HIV 1/2 and anti-HCV.		
<b>Contaminants:</b>	None detected by SDS-PAGE		

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