

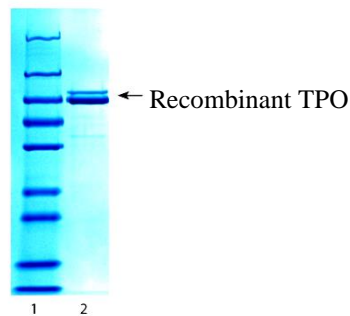
## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** A01309H **Lot #:** 4C06122

**Description:** Human TPO, Recombinant  
Thyroid Peroxidase (TPO) (a.a. 19-846), Recombinant

Recombinant soluble extracellular domain of human thyroid peroxidase (amino acids 19-846). Does not contain a fusion partner. Molecular weight is 91,981 Da. Immunoreactive in ELISA with human anti-TPO autoantibodies.



### SDS-PAGE of recombinant human TPO expressed in insect cells, reducing conditions.

Lane 1: Molecular Weight Standards (250, 130, 100, 70, 55, 35, 25, 15 and 10 kDa)

Lane 2: Human Recombinant TPO, 1 µg

Gel staining: Coomassie Brilliant Blue G-250

The electrophoretic heterogeneity of TPO is apparently caused by differential glycosylation of the protein.

**Source:** Recombinant protein expressed in insect cells.

**Format:** Affinity Purified, Lyophilized  
Reconstitute with deionized water.

**Purification:** > 95% pure (SDS-PAGE). Affinity purification using a monoclonal antibody and ion exchange chromatography.

**Concentration:** Lyophilized: 1.09 mg/mL

**Buffer:** Lyophilized from 20 mM Tris-HCl, pH 8.0 containing 250 mM Sodium Chloride, 0.1 mM Potassium Iodide and 5% D-Mannitol.

**Preservative:** None

**Applications:** Suitable for use in ELISA and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** Store lyophilized product at -20°C. After reconstitution, aliquot and store at -70°C. Avoid multiple freeze/thaw cycles.

**Inactivation:** Not Applicable

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.

Quality Signature:

07 MAR 2022

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**