

Recombinant Chicken TPO Protein, His-tagged

Cat. No. TPO-475C Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Chicken TPO Protein (Arg22-Asp177) with N-His tag was expressed in E. coli. |
| Species | Chicken |
| Source | E.coli |
| ProteinLength | Arg22-Asp177 |
| Description | This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein 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 this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined. |
| Form | Freeze-dried powder |
| Molecular Mass | Predicted Molecular Mass: 21.5 kDa Accurate Molecular Mass: 20 kDa |
| Purity | > 95% |

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| Applications | Positive Control; Immunogen; SDS-PAGE; WB. |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| Storage Buffer | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300. |
| Reconstitution | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

GENE INFORMATION

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| Gene Name | TPO thyroid peroxidase [Gallus gallus (chicken)] |
| Official Symbol | TPO |
| Synonyms | TPO; thyroid peroxidase; LOW QUALITY PROTEIN: thyroid peroxidase; thyroid peroxidase; EC 1.11.1.8 |
| Gene ID | 776120 |
| mRNA Refseq | XM_040667181 |
| Protein Refseq | XP_040523115 |
| UniProt ID | Q6IYE9 |

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