

Recombinant Mouse Tpo Protein, His-tagged

Cat. No. Tpo-474M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tpo Protein (His402-Val558) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	His402-Val558
Description	This gene encodes a membrane-bound glycoprotein. The encoded enzyme plays a central role in thyroid gland function. The enzyme 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. Mice with homozygous missense mutations in this gene exhibit hypothyroid dwarfism and hearing impairment.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.5 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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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

Gene Name

Tpo thyroid peroxidase [*Mus musculus* (house mouse)]

Official Symbol

Tpo

Synonyms

Tpo; thyroid peroxidase; EC 1.11.1.8

Gene ID

22018

mRNA Refseq

NM_009417

Protein Refseq

NP_033443

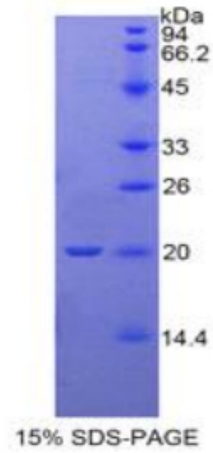
UniProt ID

P35419

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