

Recombinant Mouse Tpo protein, His-tagged

Cat. No. Tpo-2801M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tpo aa. (Val39~Asp217 (Accession # P35419)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Val39~Asp217
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	22 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 7.2.

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Applications	SDS-PAGE; WB; ELISA; IP.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Tpo thyroid peroxidase [Mus musculus (house mouse)]
Official Symbol	Tpo
Synonyms	thyroid peroxidase
Gene ID	22018
mRNA Refseq	NM_009417.3
Protein Refseq	NP_033443.1
UniProt ID	P35419

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